

NOAA's Resource Guide

for Teachers of Marine Science



NATIONAL OCEANIC
AND ATMOSPHERIC
ADMINISTRATION

U. S. Dept. of Commerce
Office of Ocean and Coastal Resources Management

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Elementary School Level Books

All about Seals, Sea Lions & Walruses

Resnick, Jane, Third Story Books, 1994. 32p.
Gr 1-8.

Amazing Animals of the Sea

Rinard, Judy, National Geographic, 1981. 104p. ill.
Books for World Explorers Series 3; No. 1. Gr 3-8.

Amazing Fish

Ling, Mary, Knopf Bks Young Readers, 1991. 32p. ill.
Gr 1-5.

Animals of Sea & Shore

Podendorf, Illa, Childrens, 1982. 48p. ill.
Gr K-4.

Animals That Live in the Sea

Straker, Joan A., National Geographic, 1978.

Art & Industry of Sandcastles

Adkins, Jan, Walker & Co., 1982. 64p. ill.

This unique book cleverly combines the popular seaside occupation of sand castle building with the lives and times of ancient castle dwellers. The handsome monochrome illustrations show the sand castle builder and the how and why of castle construction; they help develop a vocabulary and a historical perspective in the process. Gr K-up.

At Home in the Coral Reef

Muzik, Katherine, Charlesbridge, 1992. 32p. ill.

An introduction to life in the coral reef. Illustrated by Katherine Brown-Wing. Video and cassette versions are available. Also available in Spanish. Gr Ps-3.

At the Seaside

Amery, EDC Usborne, 1985. 20p. ill.
Gr Ps-K.

The Atlantic Ocean

Heinrichs, Susan, Childrens, 1986. 48p. ill.
Gr K-4.

Be an Underwater Detective

Random House, 1989. 40p. ill.
Gr 2-up.

Beach Colors & Beach Creatures

Gregory, Elizabeth, Flame Intl, 1981. ill.

A Beach For the Birds

McMillan, Bruce, Houghton Mifflin, 1993. 40p. ill.

Describes the characteristics, behavior and habitat of the endangered least tern which summers along the North Atlantic coast. Superb photographs and informative text with fact sheet, glossary and bibliography. Gr 4-6.

Beachcomber's Handbook of Seafood Cookery

Zachary, Hugh, Blair, 1981. 208p. ill.

More than a cookbook. This is a sincere commentary on seaside conservation. There's a recipe for just about any common marine animal including octopus. With a serviceable index. Gr 3-up.

Beaches Are For Kids!

Salts, Bobbi, Double B Publications, 1990. 32p. ill.

Gr 1-6.

Beacons of Light: Lighthouses

Gibbons, Gail, Morrow Jr Bks, 1990. 32p. ill.

Gr 1-up.

Beneath the Waves: Exploring the Hidden World of the Kelp Forest

Wu, Norbert, Chronicle Bks., 1992. ill.

A day in the kelp forest introduces a variety of marine life with excellent photographs by the author. Includes reproductive and defense strategies, and ecological concerns. Glossary. Gr 3-7.

Blue Claws

Krudop, Walter, Simon & Schuster Children's, 1993. 36p. ill.

The story of a preschooler's beach adventure. Gr 1-3.

The Blue Planet: Seas and Oceans

De Beauregard, Diane C., Young Discovery Library, 1989. 38p. ill.

(OP) Gr K-5.

The Blue Whale

Kim, Melissa, Ideals Children's Books, 1993. 32p. ill.

Gr 1-5.

Boat

Kentley, Eric, Knopf, 1992. 64p. ill.

Eyewitness books series. Gr 5-up.

Boats, Ships, Submarines, and Other Floating Machines

Graham, Ian, Kingfisher, 1993. ill.

Introductory material on the workings of marine craft with simple projects for testing some of the scientific principles presented. Gr 3-8.

Bottlenose Dolphin

Green, Carl R. & William R. Sanford, Silver Burdett, 1987. 48p. ill.

Gr 5-up.

The Boy Who Lived with the Seals

Martin, Rafe, Putnam, 1996. ill.

A Chinook Indian legend which portrays the lure of the sea. Gr Ps-3.

Burt Dow: Deep-water Man

McCloskey, Robert, Viking Press, 1963. 63p. ill.

A tall tale about a fisherman who catches a whale by the tail and then bandages it with striped bandage. The events that happen afterward will hold the interest of the reader. Large, colorful pictures make this a book which should be enjoyed by even the youngest students. Gr K-5.

Can the Whales Be Saved?: Questions About the Natural World and the Threats to its Survival Answered by the Natural History Museum

Whitfield, Philip, Viking Kestrel, 1989. 96p. ill.

Questions and answers present information about the balance of nature, and the ways that human behavior affects this delicate system.

Charles Darwin: Revolutionary Biologist

Evans, J. Edward, Lerner, 1993. 112p.

A good biography about the author of *Origin of the Species*. Gr 5-up.

A Citizen's Guide to Plastics in the Ocean: More Than a Litter Problem

O'Hara, Kathryn, Suzanne Iudicello, & Jil Zilligen, Center for Marine Conservation, 1994. ill.

A handbook for teachers and students which discusses the problems caused by plastics in the marine environment and suggests activities to address these problems. Gr 5-8.

Coastal Rescue: Preserving Our Seashores

Miller, Christina G. and Louise A. Berry, Atheneum, 1989. 128p. ill.

Examines different types of coasts, how they are shaped by nature, how the development of coasts has destroyed plant and animal life, beaches, and marshes, and ways to use the coast's valuable resources and still preserve them. Gr 5-9.

Come Back, Salmon: How a Group of Dedicated Kids Adopted Pigeon Creek and Brought It Back to Life

Cone, Molly, Silver Burdett, 1996. 48p. ill.

Describes the efforts of students at Jackson Elementary School in Everett, WA who cleaned up a nearby stream, stocked it with salmon, and renewed it as place for salmon to spawn. Gr 2-6.

Content Area Reading Skills Oceans: Main Idea

Pomeroy, Johanna P, Ed Activities, 1987. ill.

Gr 4.

Coral Reef

George, Michael, Creative Education, 1992. 40p. ill.

Examines the formation of coral reefs and the kinds of animals that live there. Gr 4-7.

Coral Reef

Taylor, Barbara, Dorling Kindersley, 1992. 29p. ill.

Examines the variety of life found on coral reefs, including the seahorse, hermit crab, and sea slug and presents important concepts in biology. Gr K-12.

Coral Reefs

Holing, Dwight, et. al., Silver Burdett, 1995. 39p. ill.

Describes types of reefs and the variety of species found in reef habitats. Beautiful photos. Includes bibliographical references. Gr 5-up.

Coral Reefs

Johnson, Sylvia A., Lerner, 1984. 48p. ill.

A detailed introduction to the various kinds of coral reefs, their composition, and the marine life they support. Gr 3-9.

Crabs

Johnson Sylvia, A., Lerner, 1982. 48p. ill.

An introduction to the life cycle and physical characteristics of crabs. Gr 4-up.

Creatures of the Deep

Quinn, Kaye, Price Stern, 1989. 48p. ill.

Gr K-2.

Creatures of the Desert World & Strange Animals of the Sea; Set

Pinkney, Jerry, National Geographic, 1987. 20p.

Illustrated pop-up books. Gr 3-8.

Creatures of the Sea

Fine, John C., Simon & Schuster Children's, 1989. 32p. ill.

Gr K-4.

Crinkleroot's 25 Fish Every Child Should Know

Arnosky, Jim, Maxwell Macmillan Intl, 1993. 32p. ill.
An identification guide to salt and freshwater fishes. Gr Ps-3.

Curious Clownfish

Maddern, Eric, Little, 1990. ill.
(OP) Gr K-3.

Dangerous Fish

Broekel, Ray, Childrens, 1982. ill.
Gr K-4.

Davy's Dream

Lewis, Paul Owen, Beyond Words, 1989. 64p. ill.
A young boy's adventure with wild Orca whales. Gr Ps-6.

A Day at the Beach

Vasiliu, Micrea, Random Bks Young Readers, 1978. ill.
Gr K-2.

A Day in the Life of a Commercial Fisherman

Klein, John F. & Carol Gaskin, Troll Assocs, 1988. 32p. ill.
Gr 4-8.

A Day In the Life of a Marine Biologist

Jaspersohn, William, Little, 1982. 96p. ill.
Gr 5-up.

A Day in the Life of a Marine Biologist

Paige, David, Troll Assocs, 1981. 32p. ill.
Cassette available. Gr 4-8.

Deep Sea Explorer: The Story of Robert Ballard, Discoverer of the Titanic

Archbold, Rick, Scholastic Bks, 1994. 144p. ill.
Gr 3-7.

Deep-sea Fish: An Educational Coloring Book

Spizzirri Publishing Co. Staff & Linda Spizziri, Spizzirri, 1985. 32p. ill.
A detailed coloring book which introduces a wide variety of fish. Gr K-5.

Discovering Marine Mammals: A Nature Activity Book

Field, Nancy and Sally Machlis, Dog-Eared Publications, 1987. 32p. ill.
Teaches about marine mammals through games, quizzes and activities. Gr 4-6.

Discovering Saltwater Fish

Wheeler, Alwyne, Franklin Watts, 1988. 48p. ill.
(OP) Gr K-4.

Discovering Whales and Dolphins

Craig, Janet, Troll Assocs, 1990. 32p. ill.
(OP) Gr 2-4.

Diving Into Oceans

National Wildlife Federation Staff, National Wildlife Federation, 1992. 68p. ill.
Part of Ranger Rick's Naturescope series, includes Ocean index to issues of Ranger Rick and bibliographical references.
Includes activities and crafts to aid the study of oceanography. Gr K-8.

Do Fish Drink? First Questions and Answers about Water

Kagan, Neil, Editor, Time-Life, 1993. 48p. ill.
Gr Ps-1.

Do Fishes Get Thirsty?

New England Aquarium Staff & Les Kaufman, Franklin Watts, 1991. 40p. ill.
Questions answered by the New England Aquarium. Gr 5-up.

Dolphins!

Davidson, Margaret & Sharon Bakoske, Random Bks Young Readers, 1993. 48p. ill.
A very basic introduction to the life of dolphins. Gr 1-3.

The Dolphins and Me

Reed, Don C., Scholastic Bks, 1990. 135p. ill.
The author, a former diver, describes his experiences with, and observations of, the dolphins whose underwater world he shared for more than thirteen years at California's Marine World/Africa USA

Dolphins and Porpoises

Hatherly, Janelle and Delia Nicholls, Golden Press, 1990. 68p. ill.

Dolphins for Kids

Corrigan, Patricia, NorthWood Press, 48p. ill.
Gr 3-5.

Down in the Sea: The Crab

Kite, Patricia L., Whitman, 1994. ill.
Attractive and easy to read with many interesting facts such as how crabs sense the approach of humans. Gr 2-6.

Down in the Sea: The Jellyfish

Kite, Patricia L., Whitman, 1993. 24p. ill.
Easily understood by young children. Splendid color photographs make this an exceptional book. Gr Ps-3.

Down in the Sea: The Octopus

Kite, Patricia L., Whitman, 1993. 24p. ill.
An attractive and readable introduction to the octopus. Gr Ps-3.

Down in the Sea: The Sea Slug

Kite, Patricia L., Whitman, 1994. ill.
Important facts and information about nudibranchs colorfully presented. Gr 2-6.

Ducks Don't Get Wet

Goldin, Augusta, HarperCollins Children's Bks, 1989. 32p.
Gr Ps-3.

Dying Oceans

Hogan, Paula, Gareth Stevens, 1991. 32p. ill.
Gr 3-4.

The Dying Sea

Bright, Michael, Franklin Watts, 1992. 32p. ill.
Gr 4-9.

The Earth Is Mostly Ocean

Fowler, Allan, Childrens, 1996. 32p. ill.
Gr Ps-2.

Otter rescue

Bailey, Jill., Raintree Steck-Vaughn, 1992. 48p. ill.
Uses fictional stories to relate conservation efforts for river, sea and lake otters. Gr 3-5.

Elephant Seal

Green, Carl R. and William R. Sanford, Silver Burdett, 1987. 48p. ill.

Gr 5-up.

Elephant Seals

Johnson Sylvia, A., Lerner, 1989. 48p. ill.

Covers the full life cycle of the elephant seal including reproduction and mating behaviors. Gr 3-5.

Elephants on the Beach

Brady, Irene, Scribner's, 1979.

This book illustrates careful observation as a scientific process. (OP) Gr 3-6.

Elkhorn Slough

Silberstein, Mark and Eileen Campbell, Monterey Bay Aquarium, 1989. 64p. ill.

Focuses on the national estuarine sanctuary in Monterey and its abundance of bird and marine life. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

Endangered Ocean Animals

Taylor, J. David, Crabtree, 1993. 32p. ill.

Gr 3-6.

Exploiting the Sea

Penny, Malcolm, Franklin Watts, 1991. 32p. ill.

(OP) Gr 4-7.

Exploring an Ocean Tide Pool

Bendick, Jeanne, Holt, 1994. ill.

Examines the ecosystem of a tide pool. Discusses tides, tidal zones, the formation of tide pools, the plants and animals found in a tide pool, and the effects of pollution on a tide pool and the ocean. Gr 2-5.

Exploring the Titanic

Ballard, Robert D., Scholastic Bks, 1991. ill.

Describes the sinking of the Titanic and Ballard's quest for its recovery. Gr 4-7.

Exploring Water and the Ocean

Bittinger, Gayle, Warren Pub. House, 1993. 96p. ill.

Gr Ps-1.

Famous Seaweed Soup

Martin, Antoinette Truglio, Whitman, 1993. 32p. ill.

An amusing tale, with lively illustrations. Captures the atmosphere of the seaside. Gr Ps-2.

Fearsome Fish

Parker, Steve, Raintree Steck-Vaughn, 1993. ill.

A look at the more unusual and scary marine animals. Glossary included. Gr 2-up.

A First Look at Fish

Selsam, Millicent E., Walker & Co., 1972. 32p. ill.

Gr 2-4.

A First Look at Seals, Sea Lions, & Walruses

Selsam, Millicent E., Walker & Co., 1988. 36p. ill.

Gr Ps-3.

A First Look at Seashells

Selsam, Millicent E., Walker & Co., 1983. 32p. ill.

Gr 1-3.

A First Look at Sharks

Selsam, Millicent E., Walker & Co., 1979.
Gr K-3.

A First Look at Whales

Selsam, Millicent E., Walker & Co., 1980.
Gr K-3.

First Look Under the Sea

Baker, Susan, Gareth Stevens, 1991. 32p. ill.
Gr 1-2.

Fish

Doan, Kenneth, Sterling, 1990. 40p. ill.
(OP) Gr 2-6.

Fish

Losito, Linda, Facts on File, 1989. 96p. ill.
Encyclopedia of the Animal World Series.

Fish

Mitchell, Victor, Lion USA, 1988. 16p. ill.
Gr K-up.

Fish

Parker, Steve, Random Bks Young Readers, 1990. 64p. ill.
Eyewitness books series. French language edition available. Gr 5-up.

Fish

Sabin, Louis, Troll Assocs, 1995. 32p. ill.
Gr 3-6.

Fish Calendar

Schmitz, Siegfried, Silver Burdett, 1986. ill.
(OP) Gr 3-6.

Fish Do the Strangest Things

Hornblow, Leonora and Arthur, Random Bks Young Readers, 1990. 64p. ill.
Gr 2-4.

Fish Faces

Wu, Norbert, Holt, 1993. 32p. ill.
Wu, a marine biologist and underwater photographer, uses splendid color photos to introduce fishes' characteristics. Gr Ps-2.

A Fish Hatches

Cole, Joanna, Morrow Jr Bks, 1978. 40p. ill.
Gr K-3.

Fish is Fish

Lionni, Leo, Knopf, 1974. 32p. ill.
An enchanting story about the way a fish imagines the outside world as described to him by a wordly frog who's seen it.
Beautiful illustrations. Gr K-2.

The Fish: The Story of the Stickleback

Lane, Margaret, Dial, 1981. ill.
Introduces the unusual mating behavior of the stickleback fish. (OP) Gr 3-9.

The Fish Who Could Wish

Bush, John, Kane-Miller Books, 1994. 32p. ill. Gr K-3.

The Fish With the Deep Sea Smile: Stories and Poems for Reading to Young Children

Brown Margaret, W., Shoe String, 1988. 128p. ill.

Reprint of the 1938 edition. Gr K-3.

Fishes

Armstrong, B., Learning Works, 1988. 32p. ill.

Gr 1-6.

Fishes

Wildsmith, Brian, Oxford University Press, 1987. 32p. ill.

A picture book about names given to different groups of fish. Illustrated in shimmering colors. Geared to the primary student but holds aesthetic enchantment for lower intermediate groups. Gr K-3.

Fishes

Zim, Herbert S. & Hurst H. Shoemaker, Western Publishing Co., 1987. 160p. ill.

For the identification of the common fresh and salt water fishes of North America. Species are identified by color pictures. Common and scientific names are given. Useful guide for beginners. Gr 5-8.

Follow Me to the Sea: The Adventures of Dewey, The Water Droplet, Through the Water Cycle

O'Connell, John, Mountain Press, 1994. ill.

Follow the Water from Brook to Ocean

Dorros, Arthur, HarperTrophy, 1993. 32p. ill.

Explains how water flows from brooks, to streams, to rivers, over waterfalls, through canyons and dams, to eventually reach the ocean. Gr K-4.

Food From the Sea

Rogers, Daniel, Franklin Watts, 1991. 32p. ill.

(OP) Gr 5-8.

Friendly Dolphins

Lauder, Patricia, Scholastic Bks, 1995. 64p. ill.

Many different aspects of the dolphin are covered: the history of the dolphin as a friend of man; its physical make-up and similarities to other species; and its unique sonar talents. Photographs and sketches are included. Gr 3-5.

A Garden of Whales

Davis, Maggie Steincrohn, Camden House Pub., 1993. 32p. ill.

This lyrical story celebrates whales. Gr 3-5.

Going on a Whale Watch

McMillan, Bruce, Scholastic Bks, 1992. 39p. ill.

Two six-year-olds on a whale-watching expedition see different kinds of whales engaging in such activities as headstanding and lunge feeding. Includes facts about each kind of whale and bibliographic references. Gr Ps-up.

Gray Whales

Gordon, David George and Alan Baldrige, Monterey Bay Aquarium, 1991. 64p. ill.

A thorough introduction to the Gray Whale. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Great St. Lawrence Seaway

Gibbons, Gail, Morrow Jr Bks, 1992. 40p. ill.

Describes the history and exploration of the Great St. Lawrence Seaway and its use as an inland passage. Gr 2-6.

Hermit Crabs

Johnson Sylvia, A., Lerner, 1989. 48p. ill.

This is an informative, well written introduction to the unusual behaviors of the hermit crab. Thoroughly illustrated with excellent photographs. Gr 3-6.

The Herring Gull

O'Connor, Karen, Dillon Press, 1992. 60p. ill.

An engaging account of the herring gull's life cycle and behavior. Gr 4-6.

Honu

Coste, Marion, University of Hawaii Press, 1994. 32p. ill.

Describes the Hawaiian green sea turtle, its habitat, life style, and threats to its existence. Glossary. Gr K-4.

A House by the Sea

Ryder, Joanne, Morrow Jr Bks, 1994. ill.

A rhyming story about living by the sea. Gr Ps-3.

How to Hide an Octopus and other Sea Creatures

Heller, Ruth, Putnam, 1992. 32p. ill.

Gr K-2.

Huan Ching & The Golden Fish

Raintree Steck-Vaughn, 1988. 32p. ill.

includes cassette. Gr 2-4.

Humphrey, the Lost Whale

Tokunda, Wendy and Richard Hall, Heian, 1989. 32p. ill.

An account of Humphrey, the whale who wandered in to the Sacramento Delta and was guided back to sea. Gr K-3.

I Wonder If Sea Cows Give Milk & Other Neat Facts about Unusual Animals

Donati, Annabelle, Western Publishing Co., 1993. 36p.

Gr Ps-3.

I Wonder Why the Sea is Salty and Other Questions About the Ocean

Ganeri, Anita, Kingfisher, 1995. 32p. ill.

Answers questions about the ocean, marine ecology, and marine life. With index.

Illustrated World Oceans

Simon & Schuster, 1991. ill.

The Illustrated World of Oceans

Wells, Susan, Simon & Schuster Children's, 1993. 64p. ill.

An atlas of the earth's oceans with illustrations and information about their history, inhabitants, exploration, and uses. Includes index. Gr 3-7.

Incredible Facts About the Ocean, Vol. 1: The Restless Blue Salt Water

Robinson, W. Wright, Macmillan Child Grp, 1986. 96p. ill.

(OP) Gr 4-up.

Incredible Facts About the Ocean, Vol. 2: The Land Below, The Life Within

Robinson, W. Wright, Macmillan Child Grp, 1987. ill.

Gr 4-up.

Incredible Facts About the Ocean, Vol. 3: How We Use It, How We Abuse It.

Robinson, W. Wright, Macmillan Child Grp, 1990. 128p. ill.

Gr 4-up.

The Indian Ocean

Heinrichs, Susan, Childrens, 1986. 48p. ill.

Gr K-4.

Inside the Aquarium

Wax, Wendy, Contemp Books, 1989. 32p. ill.

Is This a House For Hermit Crab?

McDonald, Megan, Orchard Bks, 1990. 32p. ill.

A Hermit Crab seeks shelter in this well conceived story enhanced with realistic pictures evocative of the sea and shore. Gr K-3.

Jack, the Seal and the Sea

Aschbrenner, Gerald, Silver Burdett, 1988. 30p. ill.

Gr 2-5.

Janice VanCleave's Oceans for Every Kid: Easy Activities that Make Learning Science Fun

VanCleave, Janice, Wiley, 1996. 245p. ill.

Activities provide information on techniques and technologies of oceanography, the topology of the ocean floor, movement of the sea, properties of sea water, and life in the sea. Gr 5-10.

Journey Under the Sea

Montgomery, Raymond A., Grey Castle, 1987. 117p. ill.

Gr 3-7.

The Kelp Forest: the Ebb and Flow of Life in the Sea's Richest Habitat

Hall, Howard, Silver Burdett, 1994. 40p. ill.

Gr 5-up.

Kermit the Hermit

Peet, Bill, Houghton Mifflin, 1980. 48p. ill.

A story, told in rhyme, about a selfish crab who is a hermit. An act of kindness by a young boy and its effects on the crab convey the message of this book. The drawings that accompany the story add a lot of detail to the text. A good book to read aloud to children. Gr K-3.

Killer Whale

Arnold, Caroline, Morrow Jr Bks, 1994. 48p. ill.

Presents the behavior and characteristics of killer whales. The role of marine parks is presented as a way to further understand whales and perhaps assist in protecting them and their environment. Easy language for children with scientific terms explained in the text. Gr 2-6.

Killer Whales

Patent, Dorothy Hinshaw, Holiday House, 1993. 32p. ill.

Gives an overview of the biology of whales. Gr 2-4.

Let's Take a Walk on the Beach

O'Connor, Karen, Childs World, 1986. 32p. ill.

(OP) Gr K-2.

Life in the Oceans

Wu, Norbert, Little, Brown, 1991. ill.

Explores the vast variety of ocean life through Wu's excellent photography and provides a great deal of useful information. (OP) Gr 3-up.

Life in the Sea

Coldrey, Jennifer, Franklin Watts, 1991. 32p. ill.

Gr 4-7.

Life in the Sea

Curran, Eileen, Troll Assocs, 1985. 32p. ill.

Gr K-2.

Listening to Crickets

Ransom, Candice F., Carolrhoda Bks., 1993. ill.

A worthwhile biography of Rachel Carson, her experiences as a marine biologist in the early 50s, and the impact of her writings. Gr 2-6.

Listening to Whales Sing

McNulty, Faith, Scholastic Bks, 1996. ill.

A young girl tries to understand the song of a whale in this story which teaches about environmental preservation and endangered species. Gr 3-4.

Little Island

MacDonald, Golden, Dell, 1993. 48p. ill.

The ecology of an island is taught using simple prose and full-page watercolors. An important lesson is that the island is part of the nearby land. This book won the 1947 Caldecott Medal for the most distinguished picture book for children. Gr K-4.

Lobster Boat

Guiberson, Brenda Z., Holt, 1993. 32p.

An informative look at the demanding and fascinating occupation of lobstering. Lovely, evocative illustrations. Gr K-3.

Lobsterman

Ipcar, Dahlov, Down East, 1977. 36p. ill.

Color paintings profusely illustrate the work of the lobsterman, his clothing, his boat, the traps, and the lobsters. A boy helps prepare the boat and equipment and finally enjoys a lobster dinner. Gr Ps-3.

A Look at the Earth Around Us: Oceans

National Geographic, 1981.

Includes cassette and teacher's guide. (OP) Gr 3-6.

The Magic Fish

Littledale, Freya, Scholastic Bks, 1986. 32p. ill.

Gr K-3.

The Magic School Bus: At the Waterworks

Cole, Joanna, Scholastic Bks, 1986.

A field trip through the city's waterworks provides a clear description of the water cycle. Gr K-6.

The Magic School Bus on the Ocean Floor

Cole, Joanna, Scholastic Bks, 1994. ill.

A fun introduction to the ocean. A teaching guide is available which uses the featured book to help students explore the relationships of science to their lives. Includes activities in language arts, science, math, art, and social studies. Also provides suggested reading list and blackline masters. Also available in Spanish. Gr 1-3.

Man-Of-War at Sea

Shale, David & Jennifer Coldrey, Gareth Stevens, 1987. 32p. ill.

Gr 4-6.

The Manatee

Sibbald, Jean, Silver Burdett, 1990. 60p. ill.

Gr 3-up.

Manatee Lagoon

O'Niel, Lily, Harbor City, 44p. ill.

This is a story of the Florida manatee and the vast richness of Florida's wildlife. A small group of manatees left Blue Springs to head out to sea with the St. John's River as it spilled out into the Atlantic Ocean. The aquatic mammals drifted with an easy flowing Southern current that brought them to the Indian River Lagoon and very far from home for the first time.

Manatees for Kids

Corrigan, Patricia, NorthWood Press, 1996. 48p. ill.

Very well illustrated with photographs and drawings. This provides a good introduction to manatees and their environment. Gr 3-5.

Mangrove Wilderness: Nature's Nursery

Lavies, Bianca, Dutton, 1994. 32p. ill.

Introduces the threatened ecosystem of Florida's red mangrove trees. Gr 3-6.

Marine Animal Collectors: How Creatures of the Sea Contribute to Science & Our Knowledge of Man

Waters, John F., Hastings, 1969. ill.

(OP) Gr 6-9.

Marine Biologist

Thompson, Kim M. and Karen M. Hilderbrand, Twin Sisters, 1996. 24p. ill.

For students who would like to become marine biologists. Student manual, study guide and audio cassette included. Gr Ps-4.

Marine Biology

Conway, Lorraine, Good Apple, 1982. 64p. ill.

Gr 5-up.

Marine Biology: With Lots of Adventures, Projects, and Ideas for Exploring the World of Oceans, Shores and Coastal Waters

Dorris, Ellen, Thames and Hudson, 1994. 64p. ill.

Examines marine organisms and offers a number of projects and ideas for exploring the marine environments. Produced in association with the Children's School of Science, Woods Hole, MA. Gr 5-8.

Mary Manatee: A Tale of Sea Cows

Tate, Suzanne, Nags Head Art, 1990. 28p. ill.

Gr K-3.

Monster Seaweeds: The Story of the Giant Kelps

Daegling, Mary, Macmillan Child Grp, 1986. 120p. ill.

(OP) Gr 4-up.

Monsters of the Deep

Barrett, Norman S., Franklin Watts, 1991. 32p. ill.

Gr K-4.

Monsters of the Sea, Vol. 1

Gelman, Rita G., Little, 1990. ill.

(OP) Gr K-3.

My Friend the Manatee: An Ocean Magic Book

Schneider, Jeffrey., Schneider Educational Products, 1991. ill.

Illustrations with brief rhyming text introduces the world of the gentle manatee, or sea cow. On board pages. Gr Ps-up.

My Friend the Porpoise: An Ocean Magic Book

Schneider, Jeffrey., Schneider Educational Products, 1991. ill.

Illustrations and brief rhyming text introduce the ocean activities of a porpoise. On board pages. Gr Ps-up.

My Friend the Sea Otter: An Ocean Magic Book

Schneider, Jeffrey., Schneider Educational Products, 1991. ill.

Illustrations and brief rhyming text introduce the watery world of the otter. On board pages. Gr Ps-up.

My Friend the Walrus: An Ocean Magic Book

Schneider, Jeffrey, Schneider Educational Products, 1991. ill.

Illustrations and brief rhyming text introduce the ocean activities of a walrus. On board pages. Gr Ps-up.

My Visit to the Aquarium

Aliki, HarperCollins, 1996. 40p. ill.

A variety of marine habitats are explored in this well-done introduction to an aquarium. Enhanced with watercolors by the author. Gr K-3.

The Mystery of the Sunken Treasure : Sea Math

Mark, Sara, Editor, Time Life for Children, 1993. 63p. ill.

Nature Hide & Seek: Oceans

Wood, John N., Knopf, 1985. 24p. ill.

Cleverly demonstrates a variety of camouflage strategies and identifies numerous marine animals. Gr 1-4.

Nessa's Fish

Luenn, Nancy, Simon & Schuster Children's, 1993. 34p. ill.

Nessa's ingenuity and bravery save from animal poachers the fish she and her grandmother caught to feed everyone in their Eskimo camp. Available on sound cassette. Also available in Spanish. Gr K-4.

Night of Ghosts and Hermits: Nocturnal Life on the Seashore

Stolz, Mary, Harcourt Brace, 1985. 48p. ill.

Describes the life of nocturnal sea creatures. Gr 3-9.

Night Reef: Dusk to Dawn on a Coral Reef

Sargent, William, 1992. 40p. ill.

Explores the life of coral reefs at night, describing the nocturnal adaptations of ocean creatures around the world and discussing the fragility of the coral reef system. New England Aquarium series. Gr 3-6.

Nine True Dolphin Stories

Davidson, Margaret, Scholastic Bks, 1990. 64p. ill.

Nine amazing stories about dolphins--most in natural habitats, some in man-made surroundings. Pleasant reading. Gr 2-5.

The Ocean

Adams, Pam, Childs Play International, 1984. 32p. ill.

A picture book. Gr Ps-K.

Ocean

MacQuitty, Miranda, Knopf, 1995. 63p. ill.

From the Eyewitness books series

Ocean Animals in Danger

Turbak, Gary, Northland Publishing, 1994. ill.

Introduces about a dozen endangered marine animals. Gr K-3.

The Ocean Book: Aquarium and Seaside Activities and Ideas for all Ages

Sobel, David, Editor, Wiley, 1989. ill.

An activity book on the oceans and marine life by the Center for Marine Conservation. Gr K-6.

The Ocean: Consider the Connections

Maraniss, Linda & Rose Bierce, Editors, Center for Environmental Education, 1985. 104p. ill.

Gr 2-6.

Ocean Facts

Gibbs, B, EDC Usborne, 1991. 48p. ill.

Gr 3-7.

The Ocean Floor

Lye, Keith, Franklin Watts, 1991. 32p. ill.

(OP) Gr 4-7.

Ocean: The Living World

Greenaway, Theresa, Christiane Gunzi and Barbara Taylor, Dorling Kindersley, 1994. 80p. ill.

Gr 1-7.

The Ocean Unfolds

VanDam Publishers, 1990. 8p. ill.

A fold-out booklet. (OP) Gr 3-up.

An Ocean World

Sis, Peter, Greenwillow Bks, 1992. 24p. ill.

A whale sails new seas and, after several unsuccessful attempts, makes a friend. Picture book. Gr Ps-3.

Oceanarium

Oppenheim, Joanne, Bantam Bks, 1994. 47p. ill.

This Bank Street series book takes an imaginative approach to tidal waters and the deep sea. (OP) Gr 3-6.

Oceanography

Conway, Lorraine, Good Apple, 1982. 64p. ill.

Gr 5-up.

Oceans

Carter, Katharine J., Childrens, 1982. 48p. ill.

Gr K-4.

Oceans

Simon, Seymour, Morrow Jr Bks, 1990. 30p. ill.

An overview of the nature of waves, tides and their effects on the land; ocean currents and their influence of the ocean on weather patterns. Spectacular photographs supplement the text. Gr 3-9.

The Oceans Atlas

Ganeri, Anita, Dorling Kindersley, 1995. 63p. ill.

Provides insight into the major features of the world's oceans, ocean exploration, marine life, and physical features. Information regarding pollution and threats to the ocean is very current. Gr 2-6.

Off-shore Oil Rig Workers

Stewart, Gail, Macmillan Child Grp, 1988. 48p. ill.

Gr 5-6.

Oil Spill!

Berger, Melvin, HarperCollins, 1994. 32p. ill.

Gr Ps-6.

Oil Spills

Anderson, Madelyn Klein, Franklin Watts, 1990. 63p. ill.

Describes the problem of oil spills, their effect on the environment, and what must be done to clean up after them. Gr 5-8.

Oliver and the Oil Spill

Chandrasekhar, Aruna, Landmark Editions, 1991. 28p. ill.

Young Oliver the otter and his mother are among a group of sea otters rescued from an oil spill. Gr K-4.

One Good Tern Deserves Another

Kimmel, Eric A., Holiday House, 1994. 188p. ill.

After the death of his stepfather, fourteen-year-old P.B. Floyd moves with his mother from Oklahoma to the Oregon coast, where he makes friends with a beautiful young birdwatcher, gets a job at a marine aquarium, and adjusts to the possibility of a new stepfather. Gr 5-9.

One Small Fish

Ryder, Joanne, Morrow Jr Bks, 1993. ill.

While sitting in science class on a Friday afternoon, a student watches all kinds of sea creatures move about the room. Gr K-up.

One Small Square:Seashore

Silver, Donald M., Freeman, 1993. ill.

A Scientific American Book for young readers.

Otters

Lepthien, Emilie U., Childrens, 1994. 48p. ill.
Both sea otters and river otters are presented here. Gr 2-6.

Otters, Octopuses, & Odd Creatures of the Deep

Reinstedt, Randall A., Ghost Town, 1987. 64p. ill.
Gr 3-6.

Our Amazing Ocean

Adler, David, Troll Assocs, 1983. 32p. ill.
Gr 3-6.

Our Changing World: The Rock Pool

Bellamy, David, Crown Publishers, 1988. 32p. ill.
This tells a story of cleaning up a rock pool in the aftermath of an oil spill and describes the return of life to the area. Gr K-6.

Our Endangered Planet: Ground Water

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991. 64p. ill.
The importance of groundwater is explained. Gr 3-9.

Our Endangered Planet: Oceans

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991. 72p. ill.
Describes the threats posed by our use of the world's oceans. Gr 4-6.

Our Endangered Planet: Rivers and Lakes

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991.
The hazards posed by pollution of the world's water systems are discussed and ideas for restoration are offered. Gr 3-9.

Our Oceans: Experiments and Activities in Marine Science

Fleisher, Paul, Millbrook Press, 1995. 80p. ill.
Gr 4-6.

The Pacific Ocean

Heinrichs, Susan, Childrens, 1986. 48p. ill.
Gr K-4.

Pagoo

Holling, Holling C., Houghton Mifflin, 1990. 96p. ill.
This book tells the story of Pagoo, a hermit crab, from larvation to maturity. Life in the tidal pool is not easy. There is a chronic housing shortage. Risks are incurred in the love-making adventures. This complete book has 20 full-page color drawings and numerous marginal illustrations. Gr 4-6.

Pearlie Oyster: A Tale of an Amazing Oyster

Tate, Suzanne, Nags Head Art, 1989. 28p. ill.
Gr K-3.

Pearson: A Harbor Seal Pup

Meyers, Susan, Dutton, 1981. 64p. ill.
A true story of the rescue, treatment and release of a seal pup. (OP) Gr 3-9.

Pirate

Platt, Richard, Dorling Kindersley, 1994. 63p. ill.
Part of the Eyewitness books series. Includes index.

Playmates of the Sea

Westerkov, Kim, Raintree Steck-Vaughn, 1990. 24p. ill.
(OP) Gr 1-4.

Polluting the Sea

Hare, Tony, Franklin Watts, 1991. ill.
(OP) Gr 4-8.

Powerful Waves

Souza, Dorothy M., Carolrhoda Bks., 1992. ill.
Focuses on the power of tsunamis (tidal waves). Gr 4-8.

Prehistoric Fish: An Educational Coloring Book

Spizzirri, Linda, Editor, Spizzirri, 1981. 32p. ill.
Gr 1-5.

Protecting the Oceans

Baines, John, Raintree Steck-Vaughn, 1991. 47p. ill.
Describes the importance of the oceans, threats to the ocean environment and measures which may curb these threats.
Includes glossary and index. Gr 3-6.

A Raft of Sea Otters: An Affectionate Portrait

Leon, Vicki, Silver Burdett, 1994. 48p. ill.
Gr 5-up.

Ranger Rick Presents Amazing Creatures of the Sea

National Wildlife Federation, 1987. 92p. ill.
Describes the physical characteristics, habits, behavior, and interrelationship of a variety of fish, invertebrates, mammals, and reptiles that live in water. (OP)

Record Breakers of the Sea

Matthews, Rupert, Troll Assocs, 1990. 32p. ill.
Gr 2-6.

The Red Sea

Mallory, Kenneth, Franklin Watts, 1991. 48p. ill.
Gr 5-7.

River in the Ocean: The Story of the Gulf Stream

Gilbreath, Alice, Macmillan Child Grp, 1985. ill.
11 bk. set. (OP)

Safari Beneath the Sea

Swanson, Diane, Sierra Club Bks. for Children, 1994. ill.
An outstanding presentation with fascinating descriptions of both familiar and unusual aspects of sea life of the Northwestern Pacific. Discusses the significance of water temperature in the ecological balance. Gr 4-8.

Sally's Submarine

Anderson, Joan, Morrow Jr Bks, 1995. ill.
Sally rides in her homemade submarine to visit the ocean floor. Gr K-up.

Salmon Story

Guiberson, Brenda Z., Holt, 1993. 72p.
A clear, detailed description of the salmon's life cycle. Describes the importance of salmon to humans, their place in the ecosystem and threats to their existence. Gr 1-7.

Sanctuary : The Story of Three Arch Rocks

Fraser, Mary Ann, Holt, 1994. ill.
In 1901 William Finley and Herman Bohlman began efforts to save the seals, sea lions and other wildlife on this group of islands off the coast of Oregon which were being killed by sportsmen. They eventually succeeded in having the area declared a national wildlife refuge. Gr 2-4.

Sand Dunes

Bannan, Jan Gumprecht, Carolrhoda Bks, 1989. ill.
Describes the formation and shaping of sand dunes. Gr 3-9.

The Sea

Raintree Steck-Vaughn, 1986. 80p. ill.
Gr K-6.

The Sea

Williams, Brian, Franklin Watts, 1991. 48p. ill.
(OP) Gr 5-8.

Sea Animals

Price Stern, 1984. 32p.
Animal Information Series Gr Ps-1.

Sea Animals

Simon & Schuster Children's, 1992. 24p.
An illustrated book from the Eye Openers Series. Gr Ps-up.

Sea Animals

Ericksen, Amy, Chronicle Bks, 1995. ill.
Sharks, Sea Otters, Whales, Dolphins, Sea Turtles and the Elephant seal are introduced. Easy reading, card pages. Gr Ps-1.

Sea Babies: New Life in The Ocean

Sibbald, Jean, Macmillan Child Grp, 1986. 88p. ill.
Gr 4-up.

Sea Creatures Do Amazing Things

Myers, Arthur, Random House, 1995. 72p. ill.
Gr 2-5.

Sea Creatures on The Move

Sibbald, Jean, Macmillan Child Grp, 1989. 128p. ill.
Gr 4-up.

Sea Elf

Ryder, Joanne, Morrow, 1993. 32p.
A girl spends a day as a sea otter in this appealing story which reveals much about the daily life of sea otters. Gr K-4.

A Sea Full of Sharks

Maestro, Betsy, Scholastic Bks, 1990. ill.
Gr 3-6.

Sea Gifts

Shannon, George, Godine, 1989. ill.
(OP) Gr 2-4.

The Sea is Calling Me

Hopkins, Lee B., Harcourt Brace, 1986. 32p. ill.
Gr 3-7.

Sea Life

Educ Insights, 1990. 20p. ill.
Gr K-up.

Sea Lion

Arnold, Caroline, Morrow Jr Bks, 1994. 48p. ill.

Tells the story of two sea lion pups rescued by the Marine Mammal Center in Laguna Beach, CA. and discusses the characteristics, habitats and behavior of sea lions in general. Gr 3-5.

Sea Mammal Discovery Library

Palmer, Sarah, Rourke, 1989. 144p. ill.

A set of six introductory books to marine animals at reading level 2. Gr K-3.

Sea Mammals

Hogner, Dorothy C., HarperCollins Children's Bks, 1979. ill.

Gr 4-up.

Sea Mammals: The Warm-blooded Ocean Explores

Sibbald, Jean H., Macmillan Child Grp, 1988. 128p. ill.

Gr 4-up.

Sea Otters

Love, John A., Fulcrum, 1992. 148p. ill.

The habitat, behavior and history of the sea otter is presented with appealing illustrations by the author. Gr 4-8.

Sea Otters

Riedman, Marianne, Monterey Bay Aquarium, 1990. 80p. ill.

A comprehensive look at otters' life cycle, social behavior, environment, and survival. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-9.

Sea Otters: A Natural History and Guide

Nickerson, Roy, Chronicle Bks, 1989. ill.

Gr 3-6.

Sea Otters and Seaweed

Lauber, Patricia, Garrard, 1976. ill.

Describes the interdependency of otters and the kelp forest ecosystem. Gr 3-6.

Sea Shapes

MacDonald, Suse, Harcourt Brace, 1994. ill.

Uses marine animals to present geometry concepts. Gr K-3.

Sea Turtles

Arnold, Caroline, Scholastic Bks, 1994. 32p. ill.

Sea Watch

Yolen, Jane., Philomel Bks, 1996. 32p. ill.

This poetry collection reveals tidbits about the habits and behaviors of sea creatures. Well done with good illustrations. Gr 2-5.

The Sea World Book of Dolphins

Leatherwood, Stephan and Randall Reeves, Harcourt Brace, 1987. ill.

Gr 3-9.

The Sea World of Sharks

Bunting, Eve, Harcourt Brace, 1984. ill.

A comprehensive introduction to sharks featuring many unusual species. Well illustrated with color photographs. Gr 3-9.

Seabird

Holling, Holling C., Houghton Mifflin, 1978. 60p. ill.

The story of an ivory carved gull created by a man on a whaling boat. The adventures of the gull, Seabird, at it passes through four generations of its creator, form the story. Scenes of the development of crafts of the sea, and finally air transportation take the reader on a journey through America's past. Gr 4-6.

Seal Journey

Sobol, Richard & Jonah , Cobblehill, 1993. 32p.

Richard Sobol and his eight year old son Jonah witness the mating and birth cycle of the harp seal at a seal colony in north-eastern Canada. Gr 5-8.

Seals and Sea Lions

Gordon, David George, Monterey Bay Aquarium, 1994. 64p. ill.

Presents the physical characteristics, life cycle and behavior of seals and sea lions. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Seas: A Celebration of Nature, in Word and Image

Lovric, Michelle, Editor, Courage Bks, 1996. 63p. ill.

A beautiful anthology of poetry about the sea wonderfully paired with paintings.

Seas and Oceans

Twist, Clint., 1992. ill.

Part of the attractive Ecology Watch Series, new terms are clearly defined. Should be helpful for science research projects. Gr 2-6.

Seashore

Parker, Steve, Knopf Bks Young Readers, 1989. 63p. ill.

Introduces the various animals and plants of the seashore and discusses the importance of preservation. French language edition available. Gr 5-up.

The Seashore

Walker, Jane, Millbrook Press, 1995. 32p. ill.

Gr 2-4.

Seashore Life on Rocky Coasts

Connor, Judith, Monterey Bay Aquarium, 64p. ill.

Gr 5-12.

The Seashore & Our Lighthouse

Schaper, Sue, SSGI Pr., 1989. 24p. ill.

(OP) Gr K-8.

Seashores

Stone, L., Rourke, 1989. 48p. ill.

Gr 4-8.

Seashores: A Guide to Animals and Plants Along the Beaches

Zim, Herbert S. & Lester Ingle, Golden Press, 1955. 160p. ill.

About 460 forms of seashore life are described and illustrated in this attractive and authoritative book. A useful companion at the beach. Index lists scientific names of the plants and animals discussed. Gr 5-12.

Secret Three

Myrick, Mildred, HarperCollins Children's Bks, 1963. 64p. ill.

A story about three boys at the beach who form a club with secret signals, coded messages, passwords, and a meeting place. They have a campout on a beach island and explore dunes, shells, grasses, etc. Gr K-3.

Secrets of a Seashore

Swenson, Allan, Gannett, 1981. 80p. ill.

Gr 4-10.

Secrets of the Deep

Selberg, Ingrid, Dial, 1990. 12p. ill.

Gr 1-5.

Shark

MacQuitty, Miranda, Knopf, 1992. 62p. ill.

Describes, in text and photographs, the physical characteristics, behavior, and life cycle of various types of sharks.
Eyewitness books series.

Sharks

Coupe, Sheena, Facts on File, 1990. 72p. ill.

Gr 3-up.

Sharks for Kids

Wolpert, Tom, NorthWood Press, 1995. 48p. ill.

Gr 3-5.

Shell

Arthur, Alex, Knopf Bks Young Readers, 1989. 62p. ill.

Eyewitness books series. Gr 5-up.

Signposts of the Sea

Althea, Cambridge University Press, 1983. 32p. ill.

(OP) Gr 5-7.

The Six Bridges of Humphrey the Whale

Knapp, Toni, Rockrimmon, 1989. ill.

Tells the story of the humpback whale who swam into the delta of San Francisco Bay and was guided back to the ocean by rescuers. Gr 3-6.

Spill! The Story of the Exxon Valdez

Carr, Terry, Franklin Watts, 1991. ill.

Introduces the 1989 Alaskan oil spill and its effects on the wildlife, ecosystem, and economy. Gr 3-6.

St. Lawrence River and Seaway

Willis, Terri, Raintree Steck-Vaughn, 1995. ill.

Describes the creation of the "fourth coastline of the U.S.", the transportation path of the Great Lakes, and U.S. and Canadian efforts to protect and restore the waters and wetlands of the Seaway.

Starfish

Hurd, Edith T., Thomas Y. Crowell Co., 1965. 40p. ill.

A delightful introduction to the starfish. Its life-style and beauty are described with carefully chosen words. Fascinating illustrations give the reader a feeling of being near the sea. Gr K-2.

Story of a Dolphin

Orr, Katherine, Carolrhoda Bks., 1993. 32p.

Based on actual events, an appealing story about a dolphin and the owner of a "dive boat." Beautifully illustrated. Gr K-4.

Strange Animals of the Sea

National Geographic Society Staff, National Geographic, 1994.

Books for World Explorers Series.

Strange Eating Habits of Sea Creatures

Sibbald, Jean, Silver Burdett, 1987. 112p. ill.

Gr 4-up.

Stranger Than Fiction: Sea Monsters

Berger, Melvin, Avon, 1991. 96p. ill.

A Swim Through the Sea

Pratt, Kristin Joy, DAWN Publications, 1994. ill.

Uses the letters of the alphabet to introduce angelfish, dolphins, manatees, octopus, and other fish and mammals living in the world's oceans, giving their physical characteristics and behavior. Also available in Spanish. Gr Ps-3.

Tentacles: The Amazing World of Octopus, Squid and Their Relatives

Martin, James, Crown Publishers, 1993. 32p. ill.

A lively and scientific introduction to the cephalopods. Enhanced with colorful descriptions and anecdotes. Splendid photos and drawings. Glossary & index. Gr 1-7.

Those Amazing Eels

Halton, Cheryl M., Silver Burdett, 1990. 112p. ill.

Gr 4-up.

A Thousand Yards of Sea: A Collection of Sea Stories and Poems

Cecil, Laura, Editor, Greenwillow Bks, 1993. 69p. ill.

A collection of delightful poems and stories. Gr K-5.

Three Adventures: Galápagos, Titicaca, The Blue Holes

Cousteau, Jacques-Yves & Philippe Diolé, Doubleday, 1973. ill.

Cousteau describes the plants, animals, and environments seen on three undersea explorations. Gr K-6.

Tide Pool

Greenaway, Frank, Dorling Kindersley, 1992. 29p. ill.

Discusses the different kinds of plants and animals that can be found in tide pools and how they interact with each other.

Tidepools: The Bright World of the Rocky Shoreline

Barnhart, Diana and Vicki Leon, Silver Burdett, 1994. 48p. ill.

Explores tidepool life along the Pacific Coast from southern Alaska and British Columbia to Baja California. Stunning photography. Gr 5-up.

Tony the Tuna

Farrington, S. Kip, Yankee Peddler, 1976. ill.

Gr 4-5.

Tracks in the Sand

Leedy, Loreen, Doubleday, 1993. 32p.

An appealing book about the life-cycle of loggerhead turtles. Gr K-3.

Trouble at Marsh Harbor

Sharpe, Susan, Puffin, 1991. 170p. ill.

Ten-year-old Ben wants to be just like his father, a waterman on Chesapeake Bay, however, crabs, rock-fish and oysters are not as plentiful as they once were. Ben makes friends with a scientist who is looking for the source of an oil leak in the bay and Ben decides to help. Gr 3-7.

Turtle Watch

Ancona, George, Macmillan, 1987. ill.

Tells about efforts to rescue endangered sea turtles. Gr 3-6.

Under the Green Willow

Coatsworth, Elizabeth, Greenwillow Bks, 1984. 24p. ill.

Gr K-3.

Under the Sea

Talbot, Frank K., Time-Life, 1995. 64p. ill.

A colorful presentation covering geography, marine life, ancient through modern exploration of the seas, exploitation and conservation. With glossary and index. Gr 4-8.

Under the Sea

Thompson, Brenda & Cynthia Overbeck, Lerner, 1977. 24p. ill.

Gr K-3.

Under the Sea

Williams, Brian, Random House, 1989. ill.

An illustrated introduction to the world under the sea and the special diving machines that probe the ocean depths. Includes information on sea creatures and their different habitats, underwater labs, fishing techniques, and searching for sunken treasure. (OP) Gr 2-5.

Under the Sea: A Beginning Science Mini-Book

Rothman, Cynthia, Newbridge Comms, 1996. 16p. ill.
Gr Ps-1.

Under the Sea from A to Z

Doubilet, Anne, Crown Publishers, 1991. 32p. ill.
An alphabet book which describes unusual sea plants and animals. (OP) Gr K-6.

Under the Sea : In 3-D!

Sammon, Rick and Susan, Elliott & Clark, 1995. 28p. ill.

Undersea Giants

Geistdoefer, Patrick, Young Discovery Library, 1988. 38p. ill.
Illustrated by Joelle Boucher Gr K-5.

Undersea Mission

Jensen, Antony, Gareth Stevens, 1988. 32p. ill.
Young Explorers Series Gr 4-5.

The Underwater Alphabet Book

Pallotta, Jerry, Charlesbridge, 1991. 32p. ill.
Gr Ps-3.

Underwater Life

Morris, Dean, Raintree Steck-Vaughn, 1987. 48p. ill.
Gr 2-6.

The Usborne Book of the Seas

Tyler, Jenny, EDC Usborne, 1976. ill.
A simple introduction to the geography and resources of the sea . Gr 3-6.

The Voyage of the Mimi

Driggs, Lorin, Editor, Holt, 1985. ill.
The Mimi is a ship used by scientists to study humpback whales. This describes the scientists' research and offers several interesting activities. Gr 3-9.

The Voyager's Stone : the Adventures of a Message-carrying Bottle Adrift on the Ocean Sea

Kraske, Robert, Orchard Bks, 1995. ill.
Gr 4-6.

Walk by the Seashore

Arnold, Caroline, Silver Burdett, 1990. 32p. ill.
Gr Ps-1.

A Walk on the Great Barrier Reef

Arnold, Caroline, Lerner, 1988. 48p. ill.
The many forms of life on Australia's Great Barrier Reef are described in this book. Gr 2-5.

Watch Out for Sharks!

Arnold, Caroline, Houghton Mifflin, 1994. ill.
Gr 3-6.

Watching Nature: The Living Seashore

Hester, Nigel S., Franklin Watts, 1992. ill.

Seashore habitats and biology are discussed as well as human interaction with the seashore. Gr 5-8.

Water

Ocko, Stephanie, Atheneum, 1995. ill.

The complex interrelationships between air and ocean currents that affect rainfall, climate patterns and water shortages are explained along with discussion of earth's ecosystems and the effect of human activities. Gr 2-up.

Water

Vendrell, Carme Sole, Barron's, 1985. ill.

An easy book explaining the importance of water. Also available in Spanish. Gr K-3.

Water Animals

Carwardine, Mark, Garrett, 1989. 45p. ill.

Gr 3-5.

Waves, Tides & Currents

Rogers, Daniel, Franklin Watts, 1991. 32p. ill.

Gr 4-7.

Way Down Deep: Strange Ocean Creatures

Demuth, Patricia, Grosset & Dunlap, 1995. 48p. ill.

Gr 1-3.

Whale

Papastavrou, Vassili, Knopf, 1993. 64p. ill.

Describes whales, dolphins, seals and other marine mammals--their physical and behavioral characteristics, evolution, history and relationships with humans. A Dorling Kindersley "Eyewitness" book. Also available in Spanish. Gr 5-up.

The Whale Family Book

D'Vincent, Cynthia, Picture Bk. Studio, 1992. ill.

D'Vincent, a marine biologist, tells of living with her family on a sail schooner and following the migratory paths of whales. Excellently written with numerous photographs. Gr 2-6.

Whales

Dow, Lesley, Facts on File, 1990. 68p. ill.

Describes the physical characteristics, life cycle and habitat of whales and discusses man's relationship with whales over the years. Includes a glossary and index. (OP) Gr 3-up.

Whales

Simon, Seymour, Harper, 1990. ill.

Gr 3-6.

Whales & Dolphins: An Educational Coloring Book

Ginsberg, Daniel, Rinehart, 1989. 32p. ill.

Gr 1-6.

Whales for Kids

Corrigan, Patricia, NorthWood Press, 1990. 48p. ill.

Gr 3-5.

Whales: Giants of the Deep

Patent, Dorothy Hinshaw, Holiday House, 1984. ill.

Presents a variety of whales, their physical characteristics, behavior, habitat and life cycle. Gr 3-9.

Whales & Other Sea Mammals

Posell, Elsa, Childrens, 1982. ill.

Gr K-4.

Whaling Days

Carrick, Carol, Clarion, 1993. 40p.

A brief survey of whaling from the 11th century to the present. Woodcuts by David Frampton enhance the informative text.
Gr 2-up.

What is a Fish?

Snedden, Robert., Sierra Club Bks. for Children, 1993. ill.

Answers the questions an elementary school student will have about fish: how gills work, how fish hear, how some fish communicate and more. Gr 2-6.

What is a Fish?

Stratton, Barbara R., Franklin Watts, 1991. 32p. ill.

Gr K-4.

What Lives in the Sea

Seymour, Peter et al, Simon & Schuster Children's, 1985. 10p. ill.

Gr 2-5.

What on Earth is a Nudibranch?

Tesar, Jenny E., Blackbirch Press, 1995. 32p. ill.

Includes bibliography and index. Gr 2-5.

What's in the Deep?: An Underwater Adventure For Children

Pechter, Alese, Acropolis Books, 1989. ill.

While staying at the beach with their parents, Nelson and Patricia go snorkeling with their older cousin and learn many things about the ocean and its inhabitants and the importance of keeping the oceans clean and healthy.

What's in the Deep Blue Sea?

Seymour, Peter, Holt, 1990. 18p. ill.

(OP) Gr K-2.

What's Under That Shell?

Souza, Dorothy M., Carolrhoda Bks., 1992. ill.

Turtles, tortoises and marine species. Gr 2-6.

What's Under the Ocean

Craig, Janet, Troll Assocs, 1982. 32p. ill.

Gr K-2.

When the Tide is Low

Cole, Sheila, Lothrop, Lee & Shepard, 1985. 33p. ill.

A mother and daughter discuss the plants and animals they can look for when the tide is low. Gr K-3.

Where are My Puffins, Whales, and Seals?

Hirschi, Ron, Bantam Bks, 1992. ill.

Describes the multitude of life found in and around the sea and how that life is being endangered by marine pollution. Gr K-3.

Where The Waves Break: Life at The Edge of The Sea

Malnig, Anita, Lerner, 1987. ill.

Beautiful photographs help introduce life at the seashore. Gr 3-6.

Where Will You Swim Tonight?

Limmer, Milly J., Whitman, 1990. 32p. ill.

Gr K-1.

Wild Lion of the Sea: The Steller Sea Lion That Refused to be Tamed

Reed, Don C., Little, Brown, 1992. ill.

Tells the story of a sea lion, born in the wild, who is captured and brought to a marine mammal park. The story of his training is told with humor and conveys factual information about how marine mammals are trained by humans as well as putting in a plea for their preservation. Gr 4-6.

Wings Along the Waterway

Brown, Mary Barrett, Orchard Bks, 1992. 80p. ill.

Discusses the habitat, lifecycle, appearance and habits of twenty-one water birds and examines the risks posed to them by technological civilization. Gr 3-6.

Wonders of the Sea

Sabin, Louis, Troll Assocs, 1982. 32p. ill.

Describes the sea habitat and introduces a variety of marine plants and animals. Gr 2-4.

World of a Jellyfish

Shale, David, Gareth Stevens, 1987. 32p. ill.

A beginner's introduction to jellyfish. (OP)

The World of Fishes

Takeuchi, Hiroshi, Raintree Steck-Vaughn, 1986. 32p. ill.

Gr 3-7.

A Year on Monhegan Island

Dean, Julia, Ticknor & Fields Bks. for Young Readers, 1995. ill.

Discusses the annual cycle of life on an island off the coast of Maine and presents the history and current state of the lobster industry. Gr 4-6.

Young Explorer's Guide to Undersea Life

Armstrong, Pam, Monterey Bay Aquarium, 1996. 64p. ill.

Gr Ps-4.

Middle School Level Books

Amazing Animals of the Sea

Rinard, Judy, National Geographic, 1981. 104p. ill.
Books for World Explorers Series 3; No. 1. Gr 3-8.

Animals That Live in the Sea

Straker, Joan A., National Geographic, 1978.

Aquatic Animals in the Wild and in Captivity

Curtis, Patricia, Lodestar Bks, 1992. 64p. ill.
Introduces six aquatic habitats and the animals that live in them. Gr 5-7.

Art & Industry of Sandcastles

Adkins, Jan, Walker & Co., 1982. 64p. ill.
This unique book cleverly combines the popular seaside occupation of sand castle building with the lives and times of ancient castle dwellers. The handsome monochrome illustrations show the sand castle builder and the how and why of castle construction; they help develop a vocabulary and a historical perspective in the process. Gr K-up.

The Atlas of Shipwrecks & Treasure: the History, Location, and Treasures of Ships Lost at Sea.

Pickford, Nigel, Dorling Kindersley, 1994. 200p. ill.
Chronicles the history of treasure-bearing shipwrecks from ancient to modern times. Includes colorful maps of historic trade routes. Gr 9-12.

Beachcomber's Botany

Perry, Loren C., Chatham Press, 1975. 160p. ill.
A detailed account of flora and fauna of the New England Coast. Exquisite pencil drawings of plants and marine algae, with a descriptive account of each, make this a high-interest book. Gr 7-8.

Beachcomber's Handbook of Seafood Cookery

Zachary, Hugh, Blair, 1981. 208p. ill.
More than a cookbook. This is a sincere commentary on seaside conservation. There's a recipe for just about any common marine animal including octopus. With a serviceable index. Gr 3-up.

The Beaches Are Moving: The Drowning of America's Shoreline

Kaufman, Wallace and Orrin Pilkey, Jr., Duke University Press, 1983. 326p.

Beachmaster: A Story of Daniel au Fond

Shachtman, Tom, Holt, 1988. 166p. ill.
An account of the adventures of a sea lion, including his experiences with man in a sea laboratory and his assumption of the role of beachmaster or head of the tribe. (OP) Gr 6-up.

Beneath the Waves: Exploring the Hidden World of the Kelp Forest

Wu, Norbert, Chronicle Bks., 1992. ill.
A day in the kelp forest introduces a variety of marine life with excellent photographs by the author. Includes reproductive and defense strategies, and ecological concerns. Glossary. Gr 3-7.

Blue Whale

National Geographic Staff, Random House, 1995.

Boat

Kentley, Eric, Knopf, 1992. 64p. ill.
Eyewitness books series. Gr 5-up.

Boats, Ships, Submarines, and Other Floating Machines

Graham, Ian, Kingfisher, 1993. ill.

Introductory material on the workings of marine craft with simple projects for testing some of the scientific principles presented. Gr 3-8.

Can the Whales Be Saved?: Questions About the Natural World and the Threats to its Survival Answered by the Natural History Museum

Whitfield, Philip, Viking Kestrel, 1989. 96p. ill.

Questions and answers present information about the balance of nature, and the ways that human behavior affects this delicate system.

Cannery Row

Steinbeck, John, Viking Penguin, 1994. 224p.

Gr 7-up.

Charles Darwin: Revolutionary Biologist

Evans, J. Edward, Lerner, 1993. 112p.

A good biography about the author of *Origin of the Species*. Gr 5-up.

Circles in the Sand

Macht, Philip, Maxrom, 1985. 64p. ill.

Gr 7-up.

A Citizen's Guide to Plastics in the Ocean: More Than a Litter Problem

O'Hara, Kathryn, Suzanne Iudicello, & Jil Zilligen, Center for Marine Conservation, 1994. ill.

A handbook for teachers and students which discusses the problems caused by plastics in the marine environment and suggests activities to address these problems. Gr 5-8.

Coastal Rescue: Preserving Our Seashores

Miller, Christina G. and Louise A. Berry, Atheneum, 1989. 128p. ill.

Examines different types of coasts, how they are shaped by nature, how the development of coasts has destroyed plant and animal life, beaches, and marshes, and ways to use the coast's valuable resources and still preserve them. Gr 5-9.

Coasts

Lye, Keith, Silver Burdett, 1989. 48p. ill.

Gr 5-8.

Come Back, Salmon: How a Group of Dedicated Kids Adopted Pigeon Creek and Brought It Back to Life

Cone, Molly, Silver Burdett, 1996. 48p. ill.

Describes the efforts of students at Jackson Elementary School in Everett, WA who cleaned up a nearby stream, stocked it with salmon, and renewed it as place for salmon to spawn. Gr 2-6.

Coral Reef

George, Michael, Creative Education, 1992. 40p. ill.

Examines the formation of coral reefs and the kinds of animals that live there. Gr 4-7.

Coral Reef

Taylor, Barbara, Dorling Kindersley, 1992. 29p. ill.

Examines the variety of life found on coral reefs, including the seahorse, hermit crab, and sea slug and presents important concepts in biology. Gr K-12.

Coral Reefs

Holing, Dwight, et. al., Silver Burdett, 1995. 39p. ill.

Describes types of reefs and the variety of species found in reef habitats. Beautiful photos. Includes bibliographical references. Gr 5-up.

Coral Reefs

Johnson, Sylvia A., Lerner, 1984. 48p. ill.

A detailed introduction to the various kinds of coral reefs, their composition, and the marine life they support. Gr 3-9.

A Day in the Life of a Commercial Fisherman

Klein, John F. & Carol Gaskin, Troll Assocs, 1988. 32p. ill.
Gr 4-8.

A Day In the Life of a Marine Biologist

Jaspersohn, William, Little, 1982. 96p. ill.
Gr 5-up.

A Day in the Life of a Marine Biologist

Paige, David, Troll Assocs, 1981. 32p. ill.
Cassette available. Gr 4-8.

Deep Sea Explorer: The Story of Robert Ballard, Discoverer of the Titanic

Archbold, Rick, Scholastic Bks, 1994. 144p. ill.
Gr 3-7.

Deep-sea Vents: Living Worlds Without Sun

Waters, John Frederick, Dutton, 1994. 48p. ill.
Describes the discovery of deep-sea vents and the lifeforms associated with these areas. Gr 6-12.

Diving Into Oceans

National Wildlife Federation Staff, National Wildlife Federation, 1992. 68p. ill.
Part of Ranger Rick's Naturescope series, includes Ocean index to issues of Ranger Rick and bibliographical references.
Includes activities and crafts to aid the study of oceanography. Gr K-8.

Dolphins and Porpoises

Hatherly, Janelle and Delia Nicholls, Golden Press, 1990. 68p. ill.

Dolphins and Porpoises: A Worldwide Guide

Sylvestre, Jean-Pierre, Sterling, 1993. 160p.
Provides detailed descriptions of 43 species with photographs and distribution maps. French language edition available.

The Dying Sea

Bright, Michael, Franklin Watts, 1992. 32p. ill.
Gr 4-9.

The Edge of the Sea

Carson, Rachel L., Houghton Mifflin, 1983. 276p. ill.
The plant and animal life environments of the coral reef, sandy beach, and rocky coast are explored in this book.
Appreciation of the sea and sealife shines through this book along with scientific insights. Excellent illustrations make this a reference and guidebook. Gr 8-12.

Elkhorn Slough

Silberstein, Mark and Eileen Campbell, Monterey Bay Aquarium, 1989. 64p. ill.
Focuses on the national estuarine sanctuary in Monterey and its abundance of bird and marine life. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Encyclopedia of Shells

Wye, Kenneth R., 1992. 288p. ill.
Comprehensive identification guide with pictures of over 1,000 shells arranged by habitat. Attractive and easy to use. Gr 5-12.

Endangered Ocean Animals

Taylor, J. David, Crabtree, 1993. 32p. ill.
Gr 3-6.

Exploiting the Sea

Penny, Malcolm, Franklin Watts, 1991. 32p. ill.
(OP) Gr 4-7.

Exploring the Oceans

Schoolhouse Press, 1989.

Describes the exploration of the oceans, above and below the surface, from the earliest navigators to the present day. Pathfinders in Exploration series. Includes index. (OP)

Exploring the Titanic

Ballard, Robert D., Scholastic Bks, 1991. ill.

Describes the sinking of the Titanic and Ballard's quest for its recovery. Gr 4-7.

Fearsome Fish

Parker, Steve, Raintree Steck-Vaughn, 1993. ill.

A look at the more unusual and scary marine animals. Glossary included. Gr 2-up.

Fish

Parker, Steve, Random Bks Young Readers, 1990. 64p. ill.

Eyewitness books series. French language edition available. Gr 5-up.

Fish and the Sea

Noel, Spike, Dufour, 1972. 64p. ill.

(OP) Gr 7-up.

Fish Calendar

Schmitz, Siegfried, Silver Burdett, 1986. ill.

(OP) Gr 3-6.

The Fish: The Story of the Stickleback

Lane, Margaret, Dial, 1981. ill.

Introduces the unusual mating behavior of the stickleback fish. (OP) Gr 3-9.

Fishes

Zim, Herbert S. & Hurst H. Shoemaker, Western Publishing Co., 1987. 160p. ill.

For the identification of the common fresh and salt water fishes of North America. Species are identified by color pictures. Common and scientific names are given. Useful guide for beginners. Gr 5-8.

Fishes of the Great Lakes Region

Hubbs, Carl L. & Karl F. Lagler, University of Michigan, 1964. ill.

Gr 9-up.

Food From the Sea

Rogers, Daniel, Franklin Watts, 1991. 32p. ill.

(OP) Gr 5-8.

Freshwater Fury Yarns and Reminiscences of the Greatest Storm in Inland Navigation

Barcus, Frank, Wayne State University Press, 1986. 182p.

Gr 7-12.

Global Marine Biological Diversity: A Strategy for Building Conservation into Decision Making

Norse, Elliott A., Editor, Island Press, 1993. 350p. ill.

Global Marine Environment : Does The Water Planet Have a Future?

Prager, Herman, University Press of America, 1993.

Gray Whales

Gordon, David George and Alan Baldrige, Monterey Bay Aquarium, 1991. 64p. ill.

A thorough introduction to the Gray Whale. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Great Book of the Sea

Guerrini, Francesco, Running Press, 1993. ill.

A comprehensive guide to sea life and environments including geographic distribution. Full index, well illustrated. Gr 6-12.

Hands-on Marine Biology Activities

Kramer, Nikki, Alpha, 1991. 320p. ill.
Lab manual available. Gr 7-10.

How to be an Ocean Scientist in Your Own Home

Simon, Seymour, HarperCollins Children's Bks, 1988. 144p. ill.
A collection of experiments designed to enhance knowledge of the oceans and marine life. Gr 5-9.

Illustrated World Oceans

Simon & Schuster, 1991. ill.

The Illustrated World of Oceans

Wells, Susan, Simon & Schuster Children's, 1993. 64p. ill.
An atlas of the earth's oceans with illustrations and information about their history, inhabitants, exploration, and uses.
Includes index. Gr 3-7.

The Intertidal Wilderness

Wertheim, Anne, Sierra, 1985. 160p. ill.
Presents the diversity of life in the intertidal areas. (OP) Gr 6-12.

Introduction to the Biology of Marine Life, 6th Edition

Sumich, James L., W.C. Brown, 1995. 465p. ill.
Instructor's manual and test item file available. Also, 50 transparencies and slides. Lab & field investigations in Marine Biology and TestPak 3.0 classroom management software. Gr 7-12.

It's Easy to Say Crepidula! A Phonetic Guide to Pronunciation of the Scientific Names of Sea Shells

Cate, Jean M., Pretty Penny, 1989. 158p. ill.
Gr 5-7.

Janice VanCleave's Oceans for Every Kid: Easy Activities that Make Learning Science Fun

VanCleave, Janice, Wiley, 1996. 245p. ill.
Activities provide information on techniques and technologies of oceanography, the topology of the ocean floor, movement of the sea, properties of sea water, and life in the sea. Gr 5-10.

Journey Under the Sea

Montgomery, Raymond A., Grey Castle, 1987. 117p. ill.
Gr 3-7.

Kelp Forests

Connor, Judith and Charles Baxter, Monterey Bay Aquarium, 1989. 64p. ill.
Introduces the communities found in a Monterey Bay kelp forest and provides a comprehensive look at this incredible rich habitat, home to hundreds of species of plant and animal life. Part of the Monterey Bay Aquarium Natural History Series. Gr 6-12.

Life in the Oceans

Baker, Lucy, Scholastic Bks, 1993. ill.
Also available in Spanish. Gr 5-8.

Life in the Oceans

Wu, Norbert, Little, Brown, 1991. ill.
Explores the vast variety of ocean life through Wu's excellent photography and provides a great deal of useful information. (OP) Gr 3-up.

Life in the Sea

Coldrey, Jennifer, Franklin Watts, 1991. 32p. ill.
Gr 4-7.

The Living Ocean, Understanding and Protecting Marine Biodiversity

Thorne-Miller, Boyce and John G. Catena, Island Press, 1991. ill.

Man-Of-War at Sea

Shale, David &. Jennifer Coldrey, Gareth Stevens, 1987. 32p. ill.
Gr 4-6.

Mariculture: Farming the Fruits of the Sea

Koch, Frances King, Franklin Watts, 1992. 56p. ill.
Presents the development of mariculture, current sea harvesting methods and crops and discusses its potential future. Gr 5-8.

Marine Biology

Conway, Lorraine, Good Apple, 1982. 64p. ill.
Gr 5-up.

Marine Biology: With Lots of Adventures, Projects, and Ideas for Exploring the World of Oceans, Shores and Coastal Waters

Dorris, Ellen, Thames and Hudson, 1994. 64p. ill.
Examines marine organisms and offers a number of projects and ideas for exploring the marine environments. Produced in association with the Children's School of Science, Woods Hole, MA. Gr 5-8.

Marine Geology: Undersea Landforms & Life Forms

Erickson, Jon, Facts on File, 1996. 208p. ill.

Marine Invertebrates and Plants of the Living Reef

Colin, Patrick L., TFH Publications, 1988. 512p. ill.
Gr 7-up.

Meet the Great Ones: An Introduction to Whales and Other Cetaceans

Barstow, Robbins, Cetacean Society, 1987. 46p. ill.
Also available in Spanish. Gr 7-12.

Mysterious Sea

Lane, Ferdinand, Ayer, 1947.

Night of Ghosts and Hermits: Nocturnal Life on the Seashore

Stolz, Mary, Harcourt Brace, 1985. 48p. ill.
Describes the life of nocturnal sea creatures. Gr 3-9.

The Ocean: Consider the Connections

Maraniss, Linda &. Rose Bierce, Editors, Center for Environmental Education, 1985. 104p. ill.
Gr 2-6.

Ocean Facts

Gibbs, B, EDC Usborne, 1991. 48p. ill.
Gr 3-7.

Ocean Planet: Writings and Images of the Sea

Benchley, Peter, edited by Judith Gradwohl, H.N. Abrams, Inc., 1995. 192p. ill.
Produced in association with the Smithsonian Institution's travelling exhibition, Ocean Planet, this covers a wide range of material concerning the oceans and marine resources conservation.

Ocean: The Living World

Greenaway, Theresa, Christiane Gunzi and Barbara Taylor, Dorling Kindersley, 1994. 80p. ill.
Gr 1-7.

Oceanography

BSA, 1983. 72p.
Gr 6-12.

Oceanography

Bramwell, Martyn, Franklin Watts, 1990. 48p. ill. (OP) Gr 7-9.

Oceanography

Conway, Lorraine, Good Apple, 1982. 64p. ill.
Gr 5-up.

Oceans

Simon, Seymour, Morrow Jr Bks, 1990. 30p. ill.

An overview of the nature of waves, tides and their effects on the land; ocean currents and their influence of the ocean on weather patterns. Spectacular photographs supplement the text. Gr 3-9.

The Oceans Atlas

Ganeri, Anita, Dorling Kindersley, 1995. 63p. ill.

Provides insight into the major features of the world's oceans, ocean exploration, marine life, and physical features. Information regarding pollution and threats to the ocean is very current. Gr 2-6.

Oceans of the World: Our Essential Resource

Polking, Kirk, Putnam, 1983. 136p. ill.
(OP) Gr 6-9.

Off-shore Oil Rig Workers

Stewart, Gail, Macmillan Child Grp, 1988. 48p. ill.
Gr 5-6.

Oil Spills

Anderson, Madelyn Klein, Franklin Watts, 1990. 63p. ill.

Describes the problem of oil spills, their effect on the environment, and what must be done to clean up after them. Gr 5-8.

One Good Tern Deserves Another

Kimmel, Eric A., Holiday House, 1994. 188p. ill.

After the death of his stepfather, fourteen-year-old P.B. Floyd moves with his mother from Oklahoma to the Oregon coast, where he makes friends with a beautiful young birdwatcher, gets a job at a marine aquarium, and adjusts to the possibility of a new stepfather. Gr 5-9.

Our Endangered Planet: Ground Water

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991. 64p. ill.
The importance of groundwater is explained. Gr 3-9.

Our Endangered Planet: Oceans

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991. 72p. ill.
Describes the threats posed by our use of the world's oceans. Gr 4-6.

Our Endangered Planet: Rivers and Lakes

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991.
The hazards posed by pollution of the world's water systems are discussed and ideas for restoration are offered. Gr 3-9.

Our Oceans: Experiments and Activities in Marine Science

Fleisher, Paul, Millbrook Press, 1995. 80p. ill.
Gr 4-6.

Pearson: A Harbor Seal Pup

Meyers, Susan, Dutton, 1981. 64p. ill.
A true story of the rescue, treatment and release of a seal pup. (OP) Gr 3-9.

A Pod of Gray Whales: An Affectionate Portrait

Gohier, Francois, Silver Burdett, 1994. 39p. ill.
Describes the life of the California Gray Whale. Gr 6-9.

Powerful Waves

Souza, Dorothy M., Carolrhoda Bks., 1992. ill.
Focuses on the power of tsunamis (tidal waves). Gr 4-8.

A Raft of Sea Otters: An Affectionate Portrait

Leon, Vicki, Silver Burdett, 1994. 48p. ill.

Gr 5-up.

Rebirth of Nature

DiSilvestro, Roger L., Wiley, 1992. ill.

Several ecosystems are the subject of this exploration of conservation issues including lakes and ocean beaches. The results of conservation efforts are described. Gr 7-12.

Record Breakers of the Sea

Matthews, Rupert, Troll Assocs, 1990. 32p. ill.

Gr 2-6.

The Red Sea

Mallory, Kenneth, Franklin Watts, 1991. 48p. ill.

Gr 5-7.

Restless Oceans

Whipple, A. B., Time-Life, 1983. 176p. ill.

(OP) Gr 7-up.

The Rising Tide: Global Warming and World Sea Levels

Edgerton, Lynne T., Island Press, 1991. 136p.

Rocky Shore

Kingsbury, John M., Chatham Press, 1970. 77p. ill.

The physical characteristics of flora and fauna of the New England Coast are described in great detail. The original environment, subsequent development, and present state of the coastline are also depicted by excellent black and white sketches. Index included. Gr 7-up.

Safari Beneath the Sea

Swanson, Diane, Sierra Club Bks. for Children, 1994. ill.

An outstanding presentation with fascinating descriptions of both familiar and unusual aspects of sea life of the Northwestern Pacific. Discusses the significance of water temperature in the ecological balance. Gr 4-8.

Salmon Story

Guiberson, Brenda Z., Holt, 1993. 72p.

A clear, detailed description of the salmon's life cycle. Describes the importance of salmon to humans, their place in the ecosystem and threats to their existence. Gr 1-7.

Sand Dunes

Bannan, Jan Gumprecht, Carolrhoda Bks, 1989. ill.

Describes the formation and shaping of sand dunes. Gr 3-9.

Sand to Sea : Marine Life of Hawaii

Feeney, Stephanie and Ann Fielding, University of Hawaii Press, 1989. ill.

Photographs and text introduce the animal and plant life found on beaches, in tide pools, on reefs, and in shallow and deep ocean waters of Hawaii. Photographs by Ed Robinson.

Save Our Oceans and Coasts

Hirschi, Ron, Delacorte Press, 1993. 72p. ill.

Discusses the characteristics, animal life, and importance of oceans and coastal areas and ways to protect these habitats.

Saving Our Wetlands and Their Wildlife

Liptak, Karen, Franklin Watts, 1992. 64p. ill.

Discusses the importance of wetlands and why they should be preserved. Lists wetlands one may visit in the U.S. and organizations concerned with wetland preservation. Gr 5-8.

The Sea

Williams, Brian, Franklin Watts, 1991. 48p. ill.
(OP) Gr 5-8.

Sea Animals

Detorie, Rick, Tor Books, 1990.

The Sea Around Us

Carson Rachael, Oxford University Press, 1991. 278p.

This classic has won many accolades including the National Book Award. It describes the formation and history of the seas, currents, and relation of the seas to man. Gr 8-12.

Sea Farmers

Waters, John F., Hastings, 1970. 128p. ill.
Gr 6-9.

Sea is All About Us: A Guide to Marine Environments of Cape Ann & Other Northern New England Waters

Robbins, Sarah F., Peabody Essex Museum, 1973.

Sea Jellies

Gowell, Elizabeth Tayntor, Franklin Watts, 1993. ill.
Gr 6-12.

Sea Otters

Love, John A., Fulcrum, 1992. 148p. ill.

The habitat, behavior and history of the sea otter is presented with appealing illustrations by the author. Gr 4-8.

Sea Otters

Riedman, Marianne, Monterey Bay Aquarium, 1990. 80p. ill.

A comprehensive look at otters' life cycle, social behavior, environment, and survival. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-9.

Sea Wolf

London, Jack, Bantam Bks, 1994.
Gr 7-up.

The Sea World Book of Dolphins

Leatherwood, Stephan and Randall Reeves, Harcourt Brace, 1987. ill.
Gr 3-9.

The Sea World of Sharks

Bunting, Eve, Harcourt Brace, 1984. ill.

A comprehensive introduction to sharks featuring many unusual species. Well illustrated with color photographs. Gr 3-9.

Seabird

Holling, Holling C., Houghton Mifflin, 1978. 60p. ill.

The story of an ivory carved gull created by a man on a whaling boat. The adventures of the gull, Seabird, as it passes through four generations of its creator, form the story. Scenes of the development of crafts of the sea, and finally air transportation take the reader on a journey through America's past. Gr 4-6.

Seal Journey

Sobol, Richard & Jonah, Cobblehill, 1993. 32p.

Richard Sobol and his eight year old son Jonah witness the mating and birth cycle of the harp seal at a seal colony in north-eastern Canada. Gr 5-8.

Seals and Sea Lions

Gordon, David George, Monterey Bay Aquarium, 1994. 64p. ill.

Presents the physical characteristics, life cycle and behavior of seals and sea lions. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Seas: A Celebration of Nature, in Word and Image

Lovric, Michelle, Editor, Courage Bks, 1996. 63p. ill.

A beautiful anthology of poetry about the sea wonderfully paired with paintings.

Seas and Oceans

Lambert, David and Anita McConnell., Facts on File, 1985. 64p. ill.

Gr 7-up.

Seashore

Parker, Steve, Knopf Bks Young Readers, 1989. 63p. ill.

Introduces the various animals and plants of the seashore and discusses the importance of preservation. French language edition available. Gr 5-up.

Seashore Life on Rocky Coasts

Connor, Judith, Monterey Bay Aquarium, 64p. ill.

Gr 5-12.

The Seashore & Our Lighthouse

Schaper, Sue, SSGI Pr., 1989. 24p. ill.

(OP) Gr K-8.

Seashores

Stone, L., Rourke, 1989. 48p. ill.

Gr 4-8.

Seashores: A Guide to Animals and Plants Along the Beaches

Zim, Herbert S. & Lester Ingle, Golden Press, 1955. 160p. ill.

About 460 forms of seashore life are described and illustrated in this attractive and authoritative book. A useful companion at the beach. Index lists scientific names of the plants and animals discussed. Gr 5-12.

Seawater: A Delicate Balance

Meyerson, A. Lee, Enslow, 1988. 64p. ill.

Provides an in-depth look at the chemistry of ocean water. Discusses the salinity of the sea, how balance is maintained, and the effects of pollution. (OP) Gr 6-12.

Secrets of a Seashore

Swenson, Allan, Gannett, 1981. 80p. ill.

Gr 4-10.

Shark

MacQuitty, Miranda, Knopf, 1992. 62p. ill.

Describes, in text and photographs, the physical characteristics, behavior, and life cycle of various types of sharks. Eyewitness books series.

Sharks

Coupe, Sheena, Facts on File, 1990. 72p. ill.

Gr 3-up.

Sharks and Rays of the Pacific Coast

Ferguson, Ava and Gregor Calliet, Monterey Bay Aquarium, 1990. 64p. ill.

Describes many varieties of shark living in the Monterey Bay region and provides an in-depth look at their lives in natural habitats. Part of the Monterey Bay Aquarium Natural History Series. Gr 6-9.

Sharks: The Perfect Predators

Hall, Howard, Blake, 1990. 39p. ill.

Depicts sharks in their natural environment. Gr 6-9.

Sharks: The Silent Hunters of The Deep

Readers' Digest Readers, Readers' Digest, 1987. ill.

Provides an historical overview of sharks from ancient times to present day research on shark behavior. Gr 6-12.

Shell

Arthur, Alex, Knopf Bks Young Readers, 1989. 62p. ill.

Eyewitness books series. Gr 5-up.

Shifting Shores: Rising Seas, Retreating Coastlines

Hecht, Jeff, Simon & Schuster Children's, 1990. 160p. ill.

Gr 7-up.

St. Lawrence River and Seaway

Willis, Terri, Raintree Steck-Vaughn, 1995. ill.

Describes the creation of the "fourth coastline of the U.S.", the transportation path of the Great Lakes, and U.S. and Canadian efforts to protect and restore the waters and wetlands of the Seaway.

Stanley's Aquarium

Fayville, Barry, Oxford University Press, 1990. 152p. ill.

(OP) Gr 7-up.

Tentacles: The Amazing World of Octopus, Squid and Their Relatives

Martin, James, Crown Publishers, 1993. 32p. ill.

A lively and scientific introduction to the cephalopods. Enhanced with colorful descriptions and anecdotes. Splendid photos and drawings. Glossary & index. Gr 1-7.

Threatened Oceans

Tesar, Jenny, Facts on File, 1992. 128p. ill.

Gr 7-12.

Tidepools: The Bright World of the Rocky Shoreline

Barnhart, Diana and Vicki Leon, Silver Burdett, 1994. 48p. ill.

Explores tidepool life along the Pacific Coast from southern Alaska and British Columbia to Baja California. Stunning photography. Gr 5-up.

Trouble at Marsh Harbor

Sharpe, Susan, Puffin, 1991. 170p. ill.

Ten-year-old Ben wants to be just like his father, a waterman on Chesapeake Bay, however, crabs, rock-fish and oysters are not as plentiful as they once were. Ben makes friends with a scientist who is looking for the source of an oil leak in the bay and Ben decides to help. Gr 3-7.

Tuna & Billfish: Fish Without a Country. 2nd ed..

Joseph, James et al., Inter-Am Tropical, 1980. 53p. ill.

Gr 7-12.

Two Years Before the Mast

Dana, Jr., Richard H., Lake, 1994. 64p.

Gr 7-12.

Under the Sea

Talbot, Frank K., Time-Life, 1995. 64p. ill.

A colorful presentation covering geography, marine life, ancient through modern exploration of the seas, exploitation and conservation. With glossary and index. Gr 4-8.

Under the Sea-Wind

Carson, Rachel, New American Library-Dutton, 1992. 320p.

An obvious love and understanding of the interdependence and life of the sea is conveyed in Carson's book. She selects several animals of different species to follow closely as they affect and are affected by their environment. Beautifully written. Gr 7-up.

Underwater Life

Morris, Dean, Raintree Steck-Vaughn, 1987. 48p. ill.
Gr 2-6.

The Village by the Sea

Fox, Paula, Franklin Watts, 1988. 160p. ill.
Gr 5-7.

The Voyage of the Mimi

Driggs, Lorin, Editor, Holt, 1985. ill.
The Mimi is a ship used by scientists to study humpback whales. This describes the scientists' research and offers several interesting activities. Gr 3-9.

The Voyager's Stone : the Adventures of a Message-carrying Bottle Adrift on the Ocean Sea

Kraske, Robert, Orchard Bks, 1995. ill.
Gr 4-6.

Watch Out for Sharks!

Arnold, Caroline, Houghton Mifflin, 1994. ill.
Gr 3-6.

Watching Nature: The Living Seashore

Hester, Nigel S., Franklin Watts, 1992. ill.
Seashore habitats and biology are discussed as well as human interaction with the seashore. Gr 5-8.

Water

Ocko, Stephanie, Atheneum, 1995. ill.
The complex interrelationships between air and ocean currents that affect rainfall, climate patterns and water shortages are explained along with discussion of earth's ecosystems and the effect of human activities. Gr 2-up.

The Water Planet

Watson, Lyall, Crown Publishers, 1988. ill.
Discusses the physics and chemistry of water describing its role in life science, physical science and earth science. Gr 6-12.

Water Sky

George, Jean Cgarhead, Harper, 1989.
This novel portrays the importance of whaling to the Eskimo people. Gr 6-9.

Water: The International Crisis

Clarke, Robin, MIT Press, 1993. 193p.

The Wealth of Oceans: Environment and Development on Our Ocean Planet

Weber, Michael L. and Judith Gradwohl, W.W. Norton & Co., 1995. 256p. ill.
An excellent overview of environmental conservation issues. Includes bibliographical references and index.

Whale

Papastavrou, Vassili, Knopf, 1993. 64p. ill.
Describes whales, dolphins, seals and other marine mammals--their physical and behavioral characteristics, evolution, history and relationships with humans. A Dorling Kindersley "Eyewitness" book. Also available in Spanish. Gr 5-up.

A Whale For the Killing

Mowat, Farley, Bantam Bks, 1984.
Based on true-life incidents, this book discusses the devastation of whale populations. Gr 6-12.

The Whale: Mighty Monarch of the Sea

Cousteau, Jacques-Yves, Doubleday, 1972. ill.
Cousteau provides an absorbing introduction to a wide variety of whales. Gr 6-12.

The Whale Watchers' Guide

Gardner, Robert, Silver Burdett, 1984. 170p. ill.
Gr 7-up.

Whales

Dow, Lesley, Facts on File, 1990. 68p. ill.

Describes the physical characteristics, life cycle and habitat of whales and discusses man's relationship with whales over the years. Includes a glossary and index. (OP) Gr 3-up.

Whales

Simon, Seymour, Harper, 1990. ill.
Gr 3-6.

Whales & Dolphins: An Educational Coloring Book

Ginsberg, Daniel, Rinehart, 1989. 32p. ill.
Gr 1-6.

Whales: Giants of the Deep

Patent, Dorothy Hinshaw, Holiday House, 1984. ill.

Presents a variety of whales, their physical characteristics, behavior, habitat and life cycle. Gr 3-9.

Whales in the Classroom Presents Getting to Know the Whales

Wade, Lawrence S., Singing Rock Press, 1995. 144p. ill.
Gr 4-8.

Whales in the Classroom Presents Oceanography

Wade, Lawrence S., Singing Rock Press, 1993. 133p. ill.

This book serves both as an introduction to oceanography and basic career development for interested students. Includes a separate section for teachers. Gr 4-8.

Whalesinger

Katz, Welwyn, Simon & Schuster Children's, 1991. 224p. ill.
Gr 7-up.

Wings Along the Waterway

Brown, Mary Barrett, Orchard Bks, 1992. 80p. ill.

Discusses the habitat, lifecycle, appearance and habits of twenty-one water birds and examines the risks posed to them by technological civilization. Gr 3-6.

The World of Fishes

Takeuchi, Hiroshi, Raintree Steck-Vaughn, 1986. 32p. ill.
Gr 3-7.

High School Level Books

Animals That Live in the Sea

Straker, Joan A., National Geographic, 1978.

Art & Industry of Sandcastles

Adkins, Jan, Walker & Co., 1982. 64p. ill.

This unique book cleverly combines the popular seaside occupation of sand castle building with the lives and times of ancient castle dwellers. The handsome monochrome illustrations show the sand castle builder and the how and why of castle construction; they help develop a vocabulary and a historical perspective in the process. Gr K-up.

The Atlas of Shipwrecks & Treasure: the History, Location, and Treasures of Ships Lost at Sea.

Pickford, Nigel, Dorling Kindersley, 1994. 200p. ill.

Chronicles the history of treasure-bearing shipwrecks from ancient to modern times. Includes colorful maps of historic trade routes. Gr 9-12.

Beachcomber's Handbook of Seafood Cookery

Zachary, Hugh, Blair, 1981. 208p. ill.

More than a cookbook. This is a sincere commentary on seaside conservation. There's a recipe for just about any common marine animal including octopus. With a serviceable index. Gr 3-up.

The Beaches Are Moving: The Drowning of America's Shoreline

Kaufman, Wallace and Orrin Pilkey, Jr., Duke University Press, 1983. 326p.

Between Pacific Tides

Ricketts, Edward F., Jack Calvin and Joel W. Hedgpeth, Stanford University Press, 1985. 614p. ill.

This is the updated, 5th edition of the classic descriptive guide to marine life on the Pacific coast. Gr 10-12.

Billy Budd

Melville, Herman, C. E. Tuttle, 1993. 416p.

Gr 9-up.

Blue Whale

National Geographic Staff, Random House, 1995.

Caine Mutiny

Wouk, Herman, Buccaneer Bks, 1994.

Gr 9-up.

Canada's Incredible Coast

Gray, William R., Editor, National Geographic, 1991. 199p. ill.

A pictorial description of life in Canada along the Arctic, Atlantic and Pacific Coasts as well as the Gulf of St. Lawrence and the Baffin Bay region. Gr 9-12.

Cannery Row

Steinbeck, John, Viking Penguin, 1994. 224p.

Gr 7-up.

Controlling Nonpoint-Source Water Pollution: A Citizen's Handbook

Hansen, Nancy R., Hope M. Babcock, & Edwin H. Clark II, National Audubon Society, 1988.

Coral Reef

Taylor, Barbara, Dorling Kindersley, 1992. 29p. ill.

Examines the variety of life found on coral reefs, including the seahorse, hermit crab, and sea slug and presents important concepts in biology. Gr K-12.

Deep-sea Vents: Living Worlds Without Sun

Waters, John Frederick, Dutton, 1994. 48p. ill.

Describes the discovery of deep-sea vents and the lifeforms associated with these areas. Gr 6-12.

Dolphins and Porpoises: A Worldwide Guide

Sylvestre, Jean-Pierre, Sterling, 1993. 160p.

Provides detailed descriptions of 43 species with photographs and distribution maps. French language edition available.

Dolphins: The Myth and the Mammal

Alpers, Antony, Houghton Mifflin, 1961. ill.

Historical conceptions, and misconceptions, of dolphins; myths, legends, and true stories. (OP) Gr 9-12.

The Edge of the Sea

Carson, Rachel L., Houghton Mifflin, 1983. 276p. ill.

The plant and animal life environments of the coral reef, sandy beach, and rocky coast are explored in this book. Appreciation of the sea and sealife shines through this book along with scientific insights. Excellent illustrations make this a reference and guidebook. Gr 8-12.

Elkhorn Slough

Silberstein, Mark and Eileen Campbell, Monterey Bay Aquarium, 1989. 64p. ill.

Focuses on the national estuarine sanctuary in Monterey and its abundance of bird and marine life. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Encyclopedia of Shells

Wye, Kenneth R., 1992. 288p. ill.

Comprehensive identification guide with pictures of over 1,000 shells arranged by habitat. Attractive and easy to use. Gr 5-12.

Familiar Birds of Sea and Shore

Perkins, Simon, Knopf, 1994. 191p.

A guide to common sea and shore birds of North America with color plates for each species. (OP)

Fish and the Sea

Noel, Spike, Dufour, 1972. 64p. ill.

(OP) Gr 7-up.

The Fish: The Story of the Stickleback

Lane, Margaret, Dial, 1981. ill.

Introduces the unusual mating behavior of the stickleback fish. (OP) Gr 3-9.

Fishes

Zim, Herbert S. & Hurst H. Shoemaker, Western Publishing Co., 1987. 160p. ill.

For the identification of the common fresh and salt water fishes of North America. Species are identified by color pictures. Common and scientific names are given. Useful guide for beginners. Gr 5-8.

Fishes: A Field and Laboratory Manual on Their Structure, Identification and Natural History

Cailliet, George M., et. al., Intl. Thomson, 1986. 194p. ill.

Gr 11-12.

Fishes of the Great Lakes Region

Hubbs, Carl L. & Karl F. Lagler, University of Michigan, 1964. ill.

Gr 9-up.

Freshwater Fury Yarns and Reminiscences of the Greatest Storm in Inland Navigation

Barcus, Frank, Wayne State University Press, 1986. 182p.

Gr 7-12.

Global Marine Biological Diversity: A Strategy for Building Conservation into Decision Making

Norse, Elliott A., Editor, Island Press, 1993. 350p. ill.

Global Marine Environment : Does The Water Planet Have a Future?

Prager, Herman, University Press of America, 1993.

Gray Whales

Gordon, David George and Alan Baldrige, Monterey Bay Aquarium, 1991. 64p. ill.

A thorough introduction to the Gray Whale. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

The Great Book of the Sea

Guerrini, Francesco, Running Press, 1993. ill.

A comprehensive guide to sea life and environments including geographic distribution. Full index, well illustrated. Gr 6-12.

Greenpeace Book of Dolphins

May, John, Editor, Sterling, 1992. 160p. ill.

Gr 10-12.

Hands-on Marine Biology Activities

Kramer, Nikki, Alpha, 1991. 320p. ill.

Lab manual available. Gr 7-10.

How to be an Ocean Scientist in Your Own Home

Simon, Seymour, HarperCollins Children's Bks, 1988. 144p. ill.

A collection of experiments designed to enhance knowledge of the oceans and marine life. Gr 5-9.

The Intertidal Wilderness

Wertheim, Anne, Sierra, 1985. 160p. ill.

Presents the diversity of life in the intertidal areas. (OP) Gr 6-12.

Introduction to the Biology of Marine Life, 6th Edition

Sumich, James L., W.C. Brown, 1995. 465p. ill.

Instructor's manual and test item file available. Also, 50 transparencies and slides. Lab & field investigations in Marine Biology and TestPak 3.0 classroom management software. Gr 7-12.

Introduction to the World's Oceans, 3rd ed.

Duxbury, Alyn C., W C Brown, 1991. 465p. ill.

Instructors Manual Included. Test item file, student study guide, lab manual and transparencies available. (OP) Gr 11-12.

Jacques Cousteau: Champion of the Sea

Reef, Catherine, Twenty-First Century Books, 1992. 72p. ill.

Gr 9-12.

Kelp Forests

Connor, Judith and Charles Baxter, Monterey Bay Aquarium, 1989. 64p. ill.

Introduces the communities found in a Monterey Bay kelp forest and provides a comprehensive look at this incredible rich habitat, home to hundreds of species of plant and animal life. Part of the Monterey Bay Aquarium Natural History Series. Gr 6-12.

The Lives of Whales and Dolphins

Connor, Richard C. & Dawn Micklethwaite Peterson, Holt, 1994. 233p. ill.

Focuses upon the intelligence and communicative abilities of whales and dolphins. Points out how human behavior is linked to the survival and conservation of these fantastic mammals. Gr 9-12.

The Living Ocean

Collins, Elizabeth, Chelsea House, 1994. 110p.

Describes physical qualities of the Earth's oceans, the impact of humans on the ocean's ecology, and suggests improvements. Gr 9-12.

The Living Ocean, Understanding and Protecting Marine Biodiversity

Thorne-Miller, Boyce and John G. Catena, Island Press, 1991. ill.

The Living Sea

Cousteau, Jacques & James Dugan, Lyons and Burford, 1988. 280p. ill.

A classic introduction to the planet and animals of the sea. Gr 9-12.

Marine Animal Collectors: How Creatures of the Sea Contribute to Science & Our Knowledge of Man

Waters, John F., Hastings, 1969. ill.

(OP) Gr 6-9.

Marine Biology and Ocean Science

Anson, August, Balaena Bks., 1990. 340p. ill.

Gr 9-12.

Marine Biology: Environment, Diversity & Ecology

Lerman, Matthew, Benjamin-Cummings, 1986. 458p. ill.

Gr 10-12.

Marine Career Series: Marine-related Occupations, a Primer for High School Students

Stout, Prentice K., URI Sea Grant Communications Office, 1990.

Purpose of this booklet is to assist high school students in understanding the broad scope of job opportunities in marine-related occupations.

Marine Geology: Undersea Landforms & Life Forms

Erickson, Jon, Facts on File, 1996. 208p. ill.

Marine Invertebrates and Plants of the Living Reef

Colin, Patrick L., TFH Publications, 1988. 512p. ill.

Gr 7-up.

Marine Science Careers: A Sea Grant Guide to Ocean Opportunities

Adams, Steve and Tracey Crago, Maine-New Hampshire Sea Grant College Program, 1996. 40p. ill.

Gr 7-12.

Moby Dick

Melville, Herman, C. E. Tuttle, 1993. 512p.

Gr 9-12.

Monsters of the Sea

Ellis, Richard, Knopf, 1994. 429p. ill.

Examines the natural history and mythology of sea animals. Marked with a sense of humor, this is enjoyable and well-researched, covering the gamut from the Loch Ness monster and mermaids to whales and octopi. Over 150 illustrations. Gr 9-12.

Mysterious Sea

Lane, Ferdinand, Ayer, 1947.

A Nation of Oceans

Weber, Michael & Richard Tinney, Center for Environmental Education, 1986. 95p. ill.

Night of Ghosts and Hermits: Nocturnal Life on the Seashore

Stolz, Mary, Harcourt Brace, 1985. 48p. ill.

Describes the life of nocturnal sea creatures. Gr 3-9.

Ocean. Biomes of the World, Set. 1.

Ricciutti, Edward R., Marshall Cavendish, 1995. 64p. ill.

Describes the biomes of rocky tide pools, sandy beaches and offshore waters. Good presentation of environmental issues, clearly written with a color-keyed map identifying worldwide biome locations and distribution.

Ocean Planet: Writings and Images of the Sea

Benchley, Peter, edited by Judith Gradwohl, H.N. Abrams, Inc., 1995. 192p. ill.

Produced in association with the Smithsonian Institution's travelling exhibition, Ocean Planet, this covers a wide range of material concerning the oceans and marine resources conservation.

Ocean Waves and Progressive Oscillatory Waves Syllabus

Sluyter, E. H., National Book, 1977. ill.

Comes with 2 recordings, 4 lessons. Syllabus and tests available. Gr 10-12.

Oceanography

BSA, 1983. 72p.

Gr 6-12.

Oceanography: An Introduction to the Marine Environment.

Davis, Richard A. Jr., W C Brown, 1991. 430p. ill.

Instructor's manual, slides, videotapes, earth science videodisc and classroom management software (TaskPak 3.0) are available. (OP) Gr 8-12.

Oceans

Simon, Seymour, Morrow Jr Bks, 1990. 30p. ill.

An overview of the nature of waves, tides and their effects on the land; ocean currents and their influence of the ocean on weather patterns. Spectacular photographs supplement the text. Gr 3-9.

The Oceans: A Book of Questions and Answers

Groves, Donald, Wiley, 1989. 203p. ill.

An easy-to-use guide encompassing the geology, chemistry, physics, history and biology of the oceans.

Old Man and the Sea

Hemingway, Ernest, Scribner's, 1995.

Gr 9-12.

Our Endangered Planet: Ground Water

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991. 64p. ill.

The importance of groundwater is explained. Gr 3-9.

Our Endangered Planet: Rivers and Lakes

Hoff, Mary K. and Mary M. Rodgers, Lerner, 1991.

The hazards posed by pollution of the world's water systems are discussed and ideas for restoration are offered. Gr 3-9.

Outermost House: A Year of Life on the Great Beach of Cape Cod

Beston, Henry, Holt, 1992. 256p.

Gr 9-12.

Pearson: A Harbor Seal Pup

Meyers, Susan, Dutton, 1981. 64p. ill.

A true story of the rescue, treatment and release of a seal pup. (OP) Gr 3-9.

Pirates and Privateers of the Americas

Marley, Davis F., ABC-Clío, 1994. 458p.

Articles focus upon people, places and terms such as pieces of eight, Spanish Main, dubloon. Mainly factual accounts of Caribbean pirates. Gr 9-12.

The Random House Atlas of the Oceans

World Conservation Union Staff, Editor, Random House, 1992. 200p. ill.

The atlas shows the environmental status of the world's oceans and presents a number of issues relevant to marine conservation including coastal development, endangered species, fishing, industry and pollution. Separate sections discuss the origins of the oceans, living resources, environment for life, harvesting the seas, and the challenge of conservation. Introduction by Jacques Cousteau. Published in collaboration with the World Conservation Union. (OP) Gr 9-12.

Realms of the Sea

Brower, Kenneth, National Geographic, 1991. 278p.

Explains and explores the natural history of marine habitats.

Rebirth of Nature

DiSilvestro, Roger L., Wiley, 1992. ill.

Several ecosystems are the subject of this exploration of conservation issues including lakes and ocean beaches. The results of conservation efforts are described. Gr 7-12.

Reef: a Safari Through the Coral World

Stafford-Deitsch, Jeremy, Sierra Club Bks, 1991. 200p.

Reef Sharks and Rays of the World: A Guide to Their Identification, Behavior & Ecology

Michael, Scott, W., Sea Challengers, Inc., 1993. 112p. ill.

Restless Oceans

Whipple, A. B., Time-Life, 1983. 176p. ill.

(OP) Gr 7-up.

The Rising Tide: Global Warming and World Sea Levels

Edgerton, Lynne T., Island Press, 1991. 136p.

Rocky Shore

Kingsbury, John M., Chatham Press, 1970. 77p. ill.

The physical characteristics of flora and fauna of the New England Coast are described in great detail. The original environment, subsequent development, and present state of the coastline are also depicted by excellent black and white sketches. Index included. Gr 7-up.

S.E.A. Lab: Science Experiments and Activities. Marine Science for High School Students in Chemistry, Biology and Physics

UNC Sea Grant College Program, ill.

Gr 9-12.

Sand to Sea : Marine Life of Hawaii

Feeney, Stephanie and Ann Fielding, University of Hawaii Press, 1989. ill.

Photographs and text introduce the animal and plant life found on beaches, in tide pools, on reefs, and in shallow and deep ocean waters of Hawaii. Photographs by Ed Robinson.

Save Our Oceans and Coasts

Hirschi, Ron, Delacorte Press, 1993. 72p. ill.

Discusses the characteristics, animal life, and importance of oceans and coastal areas and ways to protect these habitats.

Scientist at the Sea Shore

Trefil, James, Macmillan, 1987.

The beach setting is used to raise stimulating questions about the physical environment. Gr 9-12.

Sea Animals

Detorie, Rick, Tor Books, 1990.

The Sea Around Us

Carson Rachael, Oxford University Press, 1991. 278p.

This classic has won many accolades including the National Book Award. It describes the formation and history of the seas, currents, and relation of the seas to man. Gr 8-12.

Sea Change : A Message of the Oceans

Earle, Sylvia A., Putnam's Sons, 1995. 361p. ill.

Includes new findings from sea exploration and discusses marine resources, marine pollution, and conservation issues. Gr 9-12.

Sea is All About Us: A Guide to Marine Environments of Cape Ann & Other Northern New England Waters

Robbins, Sarah F., Peabody Essex Museum, 1973.

Sea Jellies

Gowell, Elizabeth Tayntor, Franklin Watts, 1993. ill.

Gr 6-12.

Sea of Cortez: A Leisurely Journal of Travel and Research

Steinbeck, John & Edward F. Ricketts, Appel, 640p.

Sea Otters

Riedman, Marianne, Monterey Bay Aquarium, 1990. 80p. ill.

A comprehensive look at otters' life cycle, social behavior, environment, and survival. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-9.

Sea Wolf

London, Jack, Bantam Bks, 1994.

Gr 7-up.

The Sea World Book of Dolphins

Leatherwood, Stephan and Randall Reeves, Harcourt Brace, 1987. ill.

Gr 3-9.

Sealife: A Guide to the Marine Environment

Waller, Geoffrey, Editor, Smithsonian, 1996. ill.

An advanced treatment of marine biology and oceanography. Gr 11-12.

Seals and Sea Lions

Gordon, David George, Monterey Bay Aquarium, 1994. 64p. ill.

Presents the physical characteristics, life cycle and behavior of seals and sea lions. Part of the Monterey Bay Aquarium Natural History Series. Gr 5-12.

Seals and Sea Lions of the World

Bonner, W. Nigel, Facts on File, 1994. ill.

Gr 9-up.

The Seas: A Celebration of Nature, in Word and Image

Lovric, Michelle, Editor, Courage Bks, 1996. 63p. ill.

A beautiful anthology of poetry about the sea wonderfully paired with paintings.

Seas and Oceans

Lambert, David and Anita McConnell., Facts on File, 1985. 64p. ill.

Gr 7-up.

Seashore Life on Rocky Coasts

Connor, Judith, Monterey Bay Aquarium, 64p. ill.

Gr 5-12.

Seashores: A Guide to Animals and Plants Along the Beaches

Zim, Herbert S. & Lester Ingle, Golden Press, 1955. 160p. ill.

About 460 forms of seashore life are described and illustrated in this attractive and authoritative book. A useful companion at the beach. Index lists scientific names of the plants and animals discussed. Gr 5-12.

Seaside Studies in Natural History: Marine Animals of Massachusetts Bay

Agassiz, Elizabeth C. and Alexander Agassiz, Ayer, 1975.

Gr 8-12.

Seawater: A Delicate Balance

Meyerson, A. Lee, Enslow, 1988. 64p. ill.

Provides an in-depth look at the chemistry of ocean water. Discusses the salinity of the sea, how balance is maintained, and the effects of pollution. (OP) Gr 6-12.

The Secret Life of Fishes

Gordon, Bernard L., Book and Tackle, 1980. ill.

An introduction to salt and freshwater fishes. Gr 9-12.

Sharks

Coupe, Sheena, Facts on File, 1990. 72p. ill.

Gr 3-up.

Sharks and Rays of the Pacific Coast

Ferguson, Ava and Gregor Calliet, Monterey Bay Aquarium, 1990. 64p. ill.

Describes many varieties of shark living in the Monterey Bay region and provides an in-depth look at their lives in natural habitats. Part of the Monterey Bay Aquarium Natural History Series. Gr 6-9.

Sharks: The Perfect Predators

Hall, Howard, Blake, 1990. 39p. ill.

Depicts sharks in their natural environment. Gr 6-9.

Sharks: The Silent Hunters of The Deep

Readers' Digest Readers, Readers' Digest, 1987. ill.

Provides an historical overview of sharks from ancient times to present day research on shark behavior. Gr 6-12.

Ship

Macaulay, David, Houghton Mifflin, 1993. 96p.

Marine archeologists study a wreck found in the Caribbean and find a diary about the building of a caravel in 1504.

The Silent World

Cousteau, Jacques, Isis, 1989.

Cousteau describes undersea exploration. Gr 9-12.

Stanley's Aquarium

Fayville, Barry, Oxford University Press, 1990. 152p. ill.

(OP) Gr 7-up.

Threatened Oceans

Tesar, Jenny, Facts on File, 1992. 128p. ill.

Gr 7-12.

Tuna & Billfish: Fish Without a Country. 2nd ed..

Joseph, James et al., Inter-Am Tropical, 1980. 53p. ill.

Gr 7-12.

Two Years Before the Mast

Dana, Jr., Richard H., Lake, 1994. 64p.

Gr 7-12.

Typee

Melville, Herman, Buccaneer Bks, 1990.

Under the Sea-Wind

Carson, Rachel, New American Library-Dutton, 1992. 320p.

An obvious love and understanding of the interdependence and life of the sea is conveyed in Carson's book. She selects several animals of different species to follow closely as they affect and are affected by their environment. Beautifully written. Gr 7-up.

The Underwater Wilderness: Life Around the Great Reefs

Roessler, Carl, McGraw-Hill, 1989. ill.

Includes photographs by the author, index.

The Vanishing Wetlands

Duffy, Treat, Franklin Watts, 1994. 159p.

Explains what wetlands are, why they are vanishing, and what may be done to preserve them. Appropriate for young researchers and higher level students. Gr 9-12.

The Voyage of the Mimi

Driggs, Lorin, Editor, Holt, 1985. ill.

The Mimi is a ship used by scientists to study humpback whales. This describes the scientists' research and offers several interesting activities. Gr 3-9.

Water: Its Global Nature

Allaby, Michael, Facts on File, 1992. 208p.

Describes the basic properties of water and its essential role for life on Earth. Explains the motion of rivers, currents and tides as well as waters' influence on weather and climate. With glossary, bibliography, and maps.

The Water Planet

Watson, Lyall, Crown Publishers, 1988. ill.

Discusses the physics and chemistry of water describing its role in life science, physical science and earth science. Gr 6-12.

Water: The International Crisis

Clarke, Robin, MIT Press, 1993. 193p.

The Wealth of Oceans: Environment and Development on Our Ocean Planet

Weber, Michael L. and Judith Gradwohl, W.W. Norton & Co., 1995. 256p. ill.

An excellent overview of environmental conservation issues. Includes bibliographical references and index.

Wetlands in Danger: a World Conservation Atlas

Dugan, Patrick, Oxford University Press, 1993. 187p.

Discusses the value and characteristics of wetlands with maps to illustrate wetland regions throughout the world. Gr 9-up.

A Whale For the Killing

Mowat, Farley, Bantam Bks, 1984.

Based on true-life incidents, this book discusses the devastation of whale populations. Gr 6-12.

The Whale: Mighty Monarch of the Sea

Cousteau, Jacques-Yves, Doubleday, 1972. ill.

Cousteau provides an absorbing introduction to a wide variety of whales. Gr 6-12.

Whales

Dow, Lesley, Facts on File, 1990. 68p. ill.

Describes the physical characteristics, life cycle and habitat of whales and discusses man's relationship with whales over the years. Includes a glossary and index. (OP) Gr 3-up.

Whales, Dolphins and Porpoises: The Visual Guide to all the World's Cetaceans

Carwardine, Mark, Dorling Kindersley, 1995. 256p. ill.

A substantial field guide to cetaceans with over 900 illustrations and detailed written descriptions. Gr 9-12.

Whales: Giants of the Deep

Patent, Dorothy Hinshaw, Holiday House, 1984. ill.

Presents a variety of whales, their physical characteristics, behavior, habitat and life cycle. Gr 3-9.

Whalesinger

Katz, Welwyn, Simon & Schuster Children's, 1991. 224p. ill.

Gr 7-up.

The World of the Sea Otter

Paine, Stefani, Sierra Club Bks, 1993. 132p.

An excellent book, well illustrated with photographs. This covers otters' life and habitat as well as the impact of humans upon otters.

Teachers' Resources

Animals of the Seas & Wetlands; Alaska Sea Week Curriculum Series II

Mickelson, Belle, Alaska Sea Grant College Program, 220p. ill.
No. 85-11 of the Alaska Sea Grant Report Series.

Aquatic Project Wild

Charles, Cheryl, California Department of Fish and Game, 1987. ill.
A unit of activities (some hands-on) for teaching about aquatic environments. Organized by theme and accompanied by guidelines for age level, time required, skills used, etc. Gr K-12.

Beneath the Shell: A Teacher's Guide to Nonpoint Source Pollution and its Potential Impact on New Jersey Shellfish

New Jersey Department of Environmental Protection, 1991. ill.
Unit focused on water, water pollution, and the effect of water pollution on marine animals. Focus is on the New Jersey area, but many activities can be adapted for other areas. Gr K-8.

The Center for Marine Conservation Ocean Book

Azimov, Isaac, Wiley, 1989. ill.
A collection of activities, puzzles, experiments, and games created by leading aquatic centers focusing on the oceans, ecosystems, marine animals, adaptations, and ecology. Glossary and list of resources. Gr K-12.

A Child's Place in the Environment: Unit 4, Caring for Aquatic Systems

Clymire, Olga N., California Department of Education, 1994. ill.
This is one of a 6 volume set of grade-level specific science units. Each unit consists of approximately 20 sequential lessons that address a variety of learning styles. Available from Konocti Unified School District c/o Olga Clymire, Lake County Office of Education, 1152 South Main St., Lakeport, CA 95453. Phone (707) 263-7249. Gr 4.

Creek Watchers: Exploring the Worlds of Creeks and Streams

Shinkle, Jill, California Aquatic Science Education Consortium, 91p. ill.
Ten activities teach basic scientific concepts related to the characteristics of creek and stream habitats. Gr 5-9.

Discovery: An Introduction. Alaska Sea Week Curriculum Series.

Mickelson, Belle and others, Alaska Sea Grant College Program, 1983. 161p.
This curriculum guide is the first in the Alaska Sea Week Curriculum Series and is geared to the kindergarten level. Topics include: (1) the ocean; (2) wetlands; (3) marine animals; (4) seashore animals; (5) seaweed; and (6) birds of wetlands, rivers, and seashores. Each unit contains information on student objectives, and activity background, vocabulary, materials, and procedure. Includes an annotated bibliography and a packet of reproducible worksheet masters. Contact: Alaska Sea Grant College Program, University of Alaska, P.O. Box 755040, Fairbanks, AK 99775-5040. ERIC NO: ED384487.

Do You Know Our Marine Algae? A Marine Education Infusion Unit

Butzow, John W. & Charles J. Gregory, Northern New England Marine Education Project, 1982. 65p.
Presents ideas and activities for use in the classroom and in field trips to the shore for middle school teachers. The focus is on the New England marine environment. Activities are designed so that teachers of many different subjects can make use of them. Includes an annotated bibliography. ERIC NO: ED257641.

Do You Know Our Marine Fish? A Marine Education Infusion Unit

Butzow, John W. & Philip Kane, Northern New England Marine Education Project, 1982. 73p.
This unit is focused on the fish of New England, presenting classroom and fieldtrip activities for middle school students. Activities are designed so that teachers of many different subjects can make use of them. Includes an annotated bibliography and teachers' resources. ERIC NO: ED241260.

Florida Marine Education Resources Bibliography. Report Number 51

Gordon, Marjorie R. & Leni L. Bane, Florida Sea Grant College, 1983.

A multidisciplinary, annotated bibliography of marine education materials. The appendix includes a suggested K-12 curriculum for science. ERIC NO: ED235031. Gr K-12.

Fresh Water Guardians: Defending Our Precious Supply

Shinkle, Jill, California Aquatic Science Education Consortium, 53p. ill.

Nine activities teach basic scientific concepts related to the physical characteristics of water and aimed at increased understanding of water pollution. Gr 5-9.

Guidelines for Science Programs for Hearing Impaired Adolescents

Mertens, Donna M., International Congress on Education of the Deaf, 1990. 29p. ill.

This evaluation study examined the implementation of the Marine Science Young Scholars Program, which provide 32 gifted deaf and hearing-impaired adolescents with a 4-week summer enrichment program in 1988 and 1989. The instructional program used a cognitively based curriculum; included labs, lectures, and field experiences; promoted one-to-one interaction; required active learning; and included the topics of the scientific method, the ethics of science, and career awareness. ERIC NO: ED333662.

Hawaii Marine Science Studies (HMSS) project

University of Hawaii Press, 1991. ill.

A one-year marine science curriculum for students of all ability levels in grades 9-12. The fluid earth--physical science and technology of the marine environment, includes water pollution, acid rain, the water cycle, green-house effect, and exclusive economic zones. The living ocean--biological science and technology of the marine environment, includes fish, invertebrates, plants, aquaculture, and ecology. Teachers are required to attend hands-on HMSS training institutes; institutes are arranged upon request anywhere in the U.S., with two units of credit available through the University of Hawaii or other host institution. For information: Dr. Frank W. Mattas, Educational Merchandising and Consulting, 1436 Spring Valley Dr., Roseville, CA 95661; (916)782-3773.

Kids Can Make a Difference! Environmental Science Activities

Dashefsky, H. Steven, TAB Books, 1995. 151p. ill.

More than 160 environmental science activities designed to help students understand environmental issues, ask questions, and find solutions to problems. Introductory sections address: (1) the nature of major global problems and a history of environmental concern; (2) basic environmental science terminology and scientific study of the environment; and (3) how to choose a topic, research the topic, and apply the scientific method. Each of the remaining 10 chapters introduces one environmental science topic and contains suggestions divided into three groups: (1) suggestions for ways to live that protect the environment; (2) step-by-step activities with suggestions on how to convert the activity into a science project; and (3) one science fair project included at the end of each chapter. The topics covered include plastic pollution, pesticides and fertilizers, soil erosion, litter, polluted beaches and coastlines, the open sea, threats to marine life, hazardous wastes, energy conservation (acid rain and global warming), and water conservation. Appendices provide a list of 85 organizations to contact, a list of 12 scientific supply houses, and metric conversions. Contains 17 references, a glossary, and an index. ERIC NO: ED384530.

Living in Water: An Aquatic Science Curriculum for Grades 4-6

National Aquarium in Baltimore, 1989. 315p. ill.

A comprehensive unit about water. Includes physical properties, habitats, how animals live in water, etc. Numerous hands-on activities, corresponding worksheets and tips for setting up and implementing the procedures. Gr 4-6.

Manatees: An Educator's Guide

Marine Mammal Commission, 1994. 33p.

While focusing on the manatee, this guide points out the importance of interdependencies within the whole ecosystem with the goal of promoting informed decision-making, responsible behavior, and constructive actions towards the protection of the manatee and its habitat in Florida. The activities included can be adapted to suit the special needs, ages and abilities of different students and are designed for multidisciplinary study areas. Accompanying this guide is a color poster, "Sirenians of the World," depicting the West Indian manatee and four related species. Topics covered include: natural history, habitat, the hydrologic cycle, other sirenian species, marine mammals, problems, manatee mortality, research and conservation, and public awareness. A list of manatee resources, reference books and audio-visual aids is included. Free to educators. To order, contact Save the Manatee Club, 500 N. Maitland Ave., Suite 210, Maitland, FL 32751. ERIC NO: ED388523. Gr K-5.

MARE: Marine Activities Resources and Education

Strang, Craig, Catherine Halversen and Roberta Dean, Regents of the University of California, 1995. ill.

The Lawrence Hall of Science in Berkeley, CA has developed a comprehensive program for marine science education. Units are available for all elementary age levels focused on the various marine habitats. The individual units may be ordered from Lawrence Hall of Science (510) 642-5008 or through their website: <http://www.lhs.berkeley.edu/EdResources.html>.

Marine & Coastal Educational Resources Directory, San Francisco & Monterey Bay Areas

California Coastal Commission, 1996. 118p. ill.

A detailed guide to organizations providing information and resources on marine and coastal education.

Marine Mammal Activity and Curriculum Guide

Dawson, Arthur, California Marine Mammal Center, 1989. ill.

Activities on marine mammals found along the California coast. Gr K-6.

The Natural Environment: An Annotated Bibliography on Attitudes and Values

Anglemyer, Mary & Eleanor R. Seagraves, Smithsonian, 1984. 268p.

An annotated bibliography of over 800 entries dealing with ethics, attitudes, and values and the relationship of these topics to the natural environment. Contact: Global Tomorrow Coalition, Smithsonian Institution Press, P.O. Box 1579, Washington, DC 20013. ERIC NO: ED257641.

North Carolina Marine Education Manual. Connections: Guide to Marine Resources, Living Marine Systems and Coastal Field Trips

Spence, L. & J. Medlicott, UNC Sea Grant, 1982. 97p.

This collection of teaching and resource materials, focused on coastal North Carolina, is designed to help middle school teachers put marine perspectives into their lessons. Contact: UNC Sea Grant, 105 "1191" Bldg., North Carolina University, Raleigh, NC 27650. ERIC NO: ED237332.

The Ocean Crisis. Our Only Earth Series. A Curriculum for Global Problem Solving

MacRae-Campbell, Linda and Others, Zephyr Press, 1990. 113p.

The "Our Only Earth" series is an integrated science, language arts, and social studies problem solving program for grades 4-12 that addresses six different global issues. The unit presented in this document addresses the problems associated with the pollution and protection of the earth's marine resources. Includes information to assist teachers in organizing and directing students in their activities. This teacher's guide includes a unit overview, instructions on how to collect information through letter writing (including addresses for appropriate organizations), three classroom activities, a set of fact cards, instructions for a scavenger hunt, instructions for a geography activity, instructions for research and independent study, and materials for a youth summit on the oceans. Additional materials included in this packet are a discussion and chart of instructional techniques and thinking skills used in the unit, a glossary of terms and a bibliography of 44 books, articles, other resources, and games on oceans issues. Order from: Zephyr Press, P.O. Box 13448-W, Tucson, AZ 85732-3448. ERIC NO: ED334067. Gr 4-12.

Ocean Waves and Progressive Oscillatory Waves Syllabus

Sluyter, E. H., National Book, 1977. ill.

Comes with 2 recordings, 4 lessons. Syllabus and tests available. Gr 10-12.

A Planning Guide for Field Study Programs: A Guide for Aquatic Field Study Programs

Fox, Barry W. and others, Virginia Cooperative Extension Service, 1993. 100p.

This guide and companion video was developed to assist volunteer leaders and educators in planning and conducting outdoor field study programs. Includes leader's guide and student activities. Order from: Cooperative Extension Distribution Center, Virginia Tech, 112 Landsdowne Street, Blacksburg, VA 24061-0512. ERIC NO: ED390669. Gr K-5.

Salmonids in the Classroom. Intermediate (Grades 4-7)

Department of Fisheries and Oceans, Canada, 1988. 382p. ill.

Presents three units about salmonids: (1) Lifecycle: biology and habitat; (2) Harvesting; (3) Enhancement and stewardship. Teaching strategies, student activities, experiments, and handouts are included. With glossary, audiovisual catalogue and bibliography. Videocassette included. Gr K-3.

Salmonids in the Classroom. Primary (K-3)

Department of Fisheries and Oceans, Canada, 1988. 248p. ill.

An illustrated story about Chucky Chum provides the foundation for an interdisciplinary unit on salmonids. Teaching strategies, student activities and handouts are included along with fieldtrip suggestions. With glossary, audiovisual catalogue and bibliography. Includes posters and two video cassettes. Gr K-3.

Save Our Seas: A Curriculum for Kindergarten Through the Twelfth Grade

Bierce, Rose and Kathy O'Hara, Editors, Center for Marine Conservation and California Coastal Commission, 1993. 106p. ill.

This curriculum guide addresses the problem of marine debris and pollution and is designed to help students realize how they can help. Multiple subject areas are incorporated into the units and numerous activities are offered. Includes index of additional resources. A Spanish language edition is in the works. Gr K-12.

Science in a Seashell: A Critical Look at Clams, Mussels, and Oysters

Louden, Cynthia and Others, Science Teacher, 1995.

A High School level curriculum on mollusks. ERIC NO: EJ509094. Gr 9-12.

Science: Promising and Exemplary Programs and Materials in Elementary and Secondary Schools

Helgeson, Stanley L., 1990. 97p. ill.

Contains 36 programs and/or material listings in four sections: Elementary-Secondary (K-12), Elementary (K-8), Junior High/Middle School, and Secondary (7-12). Topics include physical science, marine biology, environmental education, ecosystems, scientific inquiry, water quality, earth science, and field trips. Nine resource organizations and 26 references are listed. ERIC NO: ED335234.

Sea Animals: A Thematic Unit

Williams, Diane, Teacher Created Materials, Inc., 1993. 80p. ill.

A language experience approach in education focused on marine fauna.

The Voyage of the Mimi

Sunburst Communications, 1990. ill.

A curriculum project developed by Bank Street College which integrates language arts, math, science, and geography using text, computer software, and instructional television. Learning modules include maps and navigation, whales, and ecosystems. Gr 8-12.

Water Inspectors: Examining H₂O

Shinkle, Jill, California Aquatic Science Education Consortium, 50p. ill.

Nine activities teach basic scientific concepts related to the physical characteristics of water. Gr 5-9.

Wet and Wild: A Multidisciplinary Marine Education Teacher Guide, Grades K-6

Murphy, Richard C., Evaluation, Dissemination, and Assessment Center, 1983. ill.

A set of six units developed by the USC Sea Grant Program, organized around themes emphasizing different physical, chemical, and biological, economic and cultural aspects of the marine world. Each teacher guide contains information and activities for grades K-3 and 4-6. Also available in Spanish. Order from: Evaluation, Dissemination and Assessment Center, California State University, Los Angeles, CA 90032. Gr K-6.

Audiovisual Materials

CD-ROM

Great Ocean Rescue

Tom Synder Productions, 1993.

A cooperative, interactive, program which allows students to formulate solutions to problems. Presents properties of water, geological principles, pollution concerns and marine biology. With teacher's guide and student workbooks.

Format: MAC. Gr 5-8.

Oceans Below

The Software Toolworks, 1993.

"Virtual" scuba diving experience lets you explore 17 different dive sites around the world. Explore the animals, plant life, ship wrecks and sunken treasure with over 200 video segments.

Format: DOS. All Ages.

Sea Search

Moanalua Gardens Foundation, 1994.

Lovely images of life in a Hawaiian coral reef.

Format: MAC & WIN. Gr K-8.

Turning the Tide: America's Coasts at a Crossroads

National Ocean Service, 1996.

An interactive CD-ROM designed to explore the uses, functions, and ways of protecting the marine environment. Available from: NOAA, National Geodetic Survey, N/CG112 1315 East-West Highway, Station 9202, Silver Spring, M.D. 20910-3282.

Phone (301) 713-3242, Fax (301) 713-4172.

Format: MAC & WIN. Gr 9-12.

Undersea Adventure

Knowledge Adventure, 1993.

An interactive exploration of the oceans. Format: DOS. Gr K-8.

Whales & Dolphins

Media Design Interactive, 1993.

This provides an overview of cetacean biology and a detailed guide to all species of whales and dolphins. Includes pictures, videos and maps.

Format: WIN & DOS. All Ages.

Audiovisual Materials

Films

MANY OF THESE FILMS ARE AVAILABLE FOR RENTAL FROM THE DISTRIBUTORS.

About Sharks

National Geographic, 1981.

Sharks prowl the ocean depths and swim near sunny, sandy beaches. Students will be introduced to sharks and learn that only a few of them are dangerous to man. Most of the approximately 300 species of sharks feed on fish and other sea creatures. Students will learn that sharks are beautiful creatures--some are fast and streamlined, and others are slow and sluggish. Length 12 min.

Adaptation in Mollusks

American Institute of Biological Sciences, 1967.

This film considers modifications that have produced today's great variety of the ancient phylum of a hypothetical primitive mollusk, and shows special adaptations in sea and land snails, the carnivorous turban snail, sea slugs, clams and oysters.

Adaptation to a Marine Environment

CRM Films, 1967.

Describes the adjustment of the Thai frog to both fresh and salt water. Probes the role of osmosis, hydrostatic pressure, diffusion, absorptions, and excretions of wastes. Demonstrates the hypothesized role of osmosis and confirms it through scientific investigation. Length 13 min.

Adaptation to Ocean Environments

BFA Educational Media, Div. of CBS, Inc., 1971.

Pictures animal adaptations to three types of ocean environments: the open ocean, the sandy bottom, and the rocky reef. Presents physical and behavioral adaptations which solve special problems of food-getting, locomotion, protection and shelter. Length 11 min.

Adaptive Radiation: the Mollusks. Biology: Unit 6: Animal Series

Encyclopedia Britannica, 1961.

Defines mollusks and tells how classes are named, and pictures examples of each class and illustrates how the general form of mollusks is adapted in various species. Relates how mollusks reproduce and tells of their value to man. Shows the following mollusks: chitons, snails, squids, clams, oysters, tooth shells, octopi, and nautilus. Length 18 min.

Advance of Science: Underseas

Coronet/MTI, 1978.

In a blend of art illustration and animation, this film presents a subtly humorous history of our attempts at undersea exploration, from the earliest fantasies and dreams to the advent of nuclear submarines, viewers survey the ideas, the people, and the contraptions--the ingenious and the absurd, the successes and the failures--that have been instrumental in the advance of science. Length 16 min.

After the Whale. Life Around Us

Time-Life Film and Video with National Education Television, Inc., 1971.

A playful, shy, browsing mammal, defenseless against man and on the verge of extinction is presented and studied in the many aspects of its life by cameras and researchers. Includes filming at Durban, South Africa, the Whale Research Laboratory in London, in the Atlantic off Bermuda, and at California's Sea World. Length 29 min.

Algae. Biology Unit 5: Lower Organisms and Viruses Series

Encyclopedia Britannica, 1988.

Algae love moist environments--from seashores to aquariums. This study goes where they thrive, examining their typical forms, assessing their structures and evolutionary development, and explaining their reproductive processes. The importance of algae to aquatic animals and to humans is clearly established. Length 14 min.

Aliens from Inner Space

British Broadcasting Co., 1983.

Investigates the visual language of color used by cephalopods (squids, cuttlefish, octopi). Explains how scientists apply computer programming to work out a code describing the fixed components of the animals' color and shapes. Filmed in Hawaii, the Gulf of Mexico, and the coral atolls of Micronesia. Narrated by David Attenborough.

Animals of a Living Reef

Centron Educational Films, 1980.

In this beautiful film, the audience slips into the clear, sunlight, tropical waters of the Great Barrier Reef, glide alongside sharks, moray eels, manta rays, sea turtles, starfish, deadly stonefish, and bizarre and brilliantly colored coral formations. This is a spectacular motion picture, replete with factual information and important science concepts. Length 18 min.

Artificial Reefs New Jersey Outdoor Series

New Jersey Network,

Explores the New Jersey Marine Fisheries' efforts to scientifically increase production by creating new & varied havens for marine life. Old tires, ships, barges, & other materials are being submerged to the ocean floor forming artificial reefs on carefully selected & monitored sites along the coast. Length 30 min.

City of Coral

Nova WGBH-TV, Time-Life Film And Video, 1983.

A study of the ecology of the coral habitat and survival strategies of coral reef dwellers. Gr 6-12. Length 57 min.

Conch Shell

King Screen Productions, 1970.

A boy listens to a conch shell and takes an imaginary trip from a hot city sidewalk to the breezy ocean. Scenes of the ocean shore, rushing tide, starfish, crabs, anemones. Length 5 min.

Life on the Tidal Mudflats: Elkhorn Slough

Andresen, Ruth, Monterey County Office of Education, 1972. 27p.

A set of audio-visual materials for grades 6-12 including a colored filmstrip with cassette tape narration, and teacher's guide focused upon Elkhorn Slough, a tidal mudflat near Monterey Bay, California. Topics range from river drainage and the effects of pollution on living organisms to the characteristics of transition from dry land to wet marine world. The teacher's guide reproduces line drawings of all the filmstrip frames, the complete text of narration, supplementary information for each frame, a glossary of terms, and a bibliography. Contact Monterey County Office of Education, Instructional Media Division, P.O. Box 851, Salinas, California 93901. ERIC NO: ED073946.

Audiovisual Materials

Videos

MANY OF THESE VIDEOS ARE AVAILABLE FOR RENTAL FROM THE DISTRIBUTORS.

Adaptive Radiation: the Mollusks. Biology: Unit 6: Animal Series

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Defines mollusks and tells how classes are named, and pictures examples of each class and illustrates how the general form of mollusks is adapted in various species. Relates how mollusks reproduce and tells of their value to man. Shows the following mollusks: chitons, snails, squids, clams, oysters, tooth shells, octopi, and nautilus. Length 18 min.

Admiral Splash and His Amazing Submarine

Metropolitan Water District of Southern California

An introduction to the water cycle. Order from: Metropolitan Water District of Southern California, P. O. Box 54153, Los Angeles, CA 90054-9896. Phone (213) 217-6738. Length 16 min.

Adrift on the Gulf Stream.

Nova, WGBH-TV, Coronet/MTI

Investigates the most powerful ocean current in the world, the Gulf Stream, by looking at the vast array of high-technology instruments used by scientists to measure temperature, water movement, wind patterns, and biological productivity. Illustrates the many ways in which this information is put to use, from helping fishermen increase their catch to hiding U.S. navy submarines. Length 58 min.

Algae. Biology Unit 5: Lower Organisms and Viruses Series

Encyclopedia Britannica, 1988.

Algae love moist environments--from seashores to aquariums. This study goes where they thrive, examining their typical forms, assessing their structures and evolutionary development, and explaining their reproductive processes. The importance of algae to aquatic animals and to humans is clearly established. Length 14 min.

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American Experience: Rachel Carson's Silent Spring

PBS Video, 1992.

Rachel Carson was a consulting biologist for the federal government's Fish and Wildlife Department when she first took note of the unregulated use of pesticides and herbicides--especially DDT--in agricultural control farming. When *Silent Spring* was published, she was viciously attacked. She was called an ignorant and hysterical woman who wanted to turn the Earth over to the insects. The smear campaign backfired. *Silent Spring* sparked a revolution in government environmental policy and became instrumental in creating a new ecological consciousness. Gr 9-12. Length 60 min.

Artificial Reefs New Jersey Outdoor Series

New Jersey Network

Explores the New Jersey Marine Fisheries' efforts to scientifically increase production by creating new & varied havens for marine life. Old tires, ships, barges, & other materials are being submerged to the ocean floor forming artificial reefs on carefully selected & monitored sites along the coast. Length 30 min.

At Home in the Coral Reef

Muzik, Katherine, Spoken Arts, 1995.

An introduction to life in the coral reef. Comes with 10 page teacher's guide. (See book listing too.) Gr Ps-3. Length 12 min.

Atlantic Realm, No.1: Island Arks

Public Media, Inc. (Films Inc IL), 1989.

The north & south Atlantic seas were formed at the dawn of time. This program travels to Iceland, the Bahamas, the Canary Islands, Ascension, St. Helena, Tristan da Cunha, & toward Antarctica to explore the origins of the ocean islands & the wildlife they nurture. Pt. 1: 29min.; Pt.2: 28 min

Atlantic Realm, No. 2: Ocean of Light.

Public Media, Inc. (Films Inc IL), 1989.

The winds & currents of the Atlantic affect the behavior of life-forms on or near the surface of the ocean. From the giant sea louse to humpback whales, Atlantic Realm cameras capture the wildlife that makes its home in the photic zone the area where light penetrates. Pt. 1: 26 min.; Pt.2: 32 min.

Atlantic Realm, No. 3: Into the Abyss

Public Media, Inc. (Films Inc IL), 1989.

Deep in the Atlantic is a place of perpetual darkness, near-freezing temperatures, & enormous pressure. For the first time, cameras explore the lower depths, & discover strange creatures that have adapted to life in this harsh subaqueous world. Pt. 1:30 min.; Pt. 2: 38 min.

Beginning of the Food Chain: Plankton

Encyclopedia Britannica, 1987.

The ecology of our oceans is dependent on microscopic life forms--called plankton--drifting in the currents just off our coasts. This program observes how plankton grow & develop. Length 12 min.

Beneath Alaska Tides. Sea School: Alaska Fisheries Series

Agency for Instructional Technology, 1983.

Kelp forests, boulder fields, & sand of the inshore coastal system teem with plant & animal life. Teacher's guide available. Gr 6-8. Length 15 min.

Beyond Belief: The Humpback Whales

Cetacean Video, 1988.

Physical attributes and behaviors of the humpback whale are shown, including feeding methods. Contact A. Daniel Knaves, Cetacean Video, P. O. Box 1052, Mechanicsburg, PA 17055 (717) 763-9507 Gr 9-12. Length 50 min.

Blue Planet. The Living Planet Series

Films for the Humanities & Sciences, 1986.

Explains how an extraordinary series of circumstances led to the development of life on Earth, & how Earth's environment shaped the way in which Earth's life forms evolved. Length 26 min.

Careers in Marine Science: A Diversity of Opportunities

Marine Biological Laboratory, 1996.

This video can be ordered from Harbor Branch Oceanographic Inst. Inc., 5600 US 1 North Fort Pierce, FL 34946, Attn: A-V Dept. Gr 11-12.

Chesapeake: The Twilight Ecology

Maryland Sea Grant College Program, 1991.

An environmental mystery story illustrating the causes for the decline of sea grasses throughout Chesapeake Bay, one of the USA's most productive estuaries. To order, contact Maryland Sea Grant, College Park, MD 20742. Phone (301) 405-6382, Fax (301) 314-9581. Gr 6-12. Length 39 min.

City of Coral

Nova WGBH-TV, Time-Life Film And Video, 1983.

A study of the ecology of the coral habitat and survival strategies of coral reef dwellers. Gr 6-12. Length 57 min.

Coastal Ocean in Crisis: Science for Solutions

National Audiovisual Center

Discusses water pollution and conservation efforts. Order from: The National Audiovisual Center, 8700 Edgeworth Drive, Capitol Heights, MD 20743-3701. Phone (301) 763-1891. Length 20 min.

Conserving America: The Challenge on the Coast

The Video Project

Order from The Video Project, 5332 College Avenue, Suite 101, Oakland, CA 94618. Length 58 min.

Currents, Oceanography Series

Coronet, 1989.

Archival film of early water mass investigations on board the research vessel Discovery is followed with a description of the classic MODE Project. Modern techniques of measuring & modelling the meso-scale circulation may soon enable scientists to forecast "weather" inside the oceans as well as above them. Length 25 min.

Danger at the Beach

PBS Video,

A National Audubon Society Special on pollution. Order from PBS Video, 1320 Braddock Place, Alexandria, VA 22314-1698. Phone (800) 328-PBS1. Length 60 min.

Deep Sea Dive

National Geographic Society., Columbia TriStar Home Video, 1994.

Animated feature explores the world's oceans. Gr K-3. Length 45 min.

Demons of the Deep

Discovery Home Entertainment, 1990.

Learn about sharks, barracudas and more. Length 50 min.

Discovering Our Rivers, Lakes and Oceans

Film Ideas, Inc., 1989.

Combines an introduction to oceanography with an overview of earth's fresh water & a tour through the hydrologic cycle. Interviews with scientists underscore the need for humans to use all of their water resources wisely. Length 30 min.

Down the Drain

Children's Television Workshop, 1991.

From the 3.2.1 Contact series, this discuss the importance of water, how it gets dirty and how it gets clean. Length 30 min.

Down the Shore

PBS Video

An introduction to water and the water cycle. Order from PBS Video, 1320 Braddock Place, Alexandria, VA 22314-1698. Phone (800) 328-PBS1. Length 60 min.

Epilogue

RMI Media Productions, Inc.,

Discusses technological developments which bring the marine sciences to the threshold of a new era: space sensors can provide data in an instant that previously would have taken years to collect using other means; mechanisms needed to mine mineral beds deep within the ocean are now being perfected; ocean food gathering will eventually be replaced by large-scale ocean farming. Reveals how the ocean will serve mankind as an invaluable source of power, medicine, & water and addresses the planetary consequences of what we do with & to the ocean in the future. Length 30 min.

Estuary

Bullfrog Films, Inc., 1981.

A close-up look at an estuary, the biologically important wetlands where the fresh water of a river meets the salt water of the ocean. Barnacles feed themselves and diving ducks display their comic acrobatics as the film details the complex ecology of estuarine life. Length 12 min.

Estuary: Columbia's Link With the Sea

Sea Grant Communications, 1982.

Examines the complex relationship between the biological and economic demands of the Pacific Northwest's largest river, the Columbia, and its estuary. Contact: Director, Sea Grant Communications, Oregon State University, Administrative Services A 402, Corvallis, OR 97331-2134 (503) 737-2716 Fax (503) 737-2392 Gr 6-12. Length 28 min.

Exploring the Ocean

Churchill Films, 1972.

About the ocean floor, plants, animals & the food chain. Shows the ocean's storehouse of minerals & how they are deposited by the water cycle, and discusses pollution. Length 14 min.

Exploring the Ocean Floor with Jacques Cousteau

Barr Films, Inc., 1989.

An animated observation of Jacques Cousteau's exploration of the ocean's floor. Length 24 min.

Fish

AIMS Media, 1978.

The adaptations and behaviors of fish are shown to youngsters. A fish's fins, gills, and scales are described, and their functions are explained. The motion of fish, care of their young, and defenses are portrayed. Length 10 min.

Fish: a First Film

Phoenix/BFA Films & Video, 1986.

There are hundreds of different types of fish. This film shows many of them & distinguishes fish from other types of animals, including frogs & others that also live in water. Length 12 min.

Great Lakes, Bitter Legacy

PBS Video

A National Audubon Society Special presenting the problems caused by overuse and pollution of the Great Lakes. Order from PBS Video, 1320 Braddock Place, Alexandria, VA 22314-1698. Phone (800) 328-PBS1. Length 60 min.

A Guided Walk through the Kelp Forest

Channel Islands National Park

Live video of the kelp forest in Channel Islands National Park. No narrative. Order from: Channel Islands National Park, 1901 Spinnaker Drive, Ventura, CA 93001. Phone (805) 658-5700, Fax (805) 658-5799. Gr 5-12.

Hidden Treasures of Monterey

VideoTours, 1994.

An introduction to the Monterey Bay National Marine Sanctuary. Length 20 min.

Jack, the Seal and the Sea

Great Plains Instructional Television Library, 1990.

This exploration of the San Francisco Bay teaches about the preservation of water and ways we can preserve the oceans. Shows a variety of marine life, from the smallest the eye can see to an amazing leopard shark. Reading Rainbow Series. Gr 2-5. Length 30 min.

Life in the Sea

Questar Video, 1995.

A two video set: Vol. 1, Great Sea Mammals, includes whales, dolphins and manatees; Vol. 2, Great Sea Predators, Includes sharks, barracudas and stingrays. Length 60 min.

Nova: Are You Swimming in a Sewer?

Coronet Film & Video, 1987.

Developing alternatives to ocean disposal of wastewater may require Americans to change their perceptions of waste. Our present linear use of natural resources--extract, process, exploit, and dispose--could become a circular process that includes conservation and recycling. Americans must decide whether the cost of switching to nonpolluting methods of waste disposal is a worthy investment in the future of their coastal waters. Contact: Coronet Film & Video, 108 Wilmot Dr., Deerfield, IL 60015. Phone 1-800-621-2131. Length 58 min.

Salt of the Earth: A Journey to the Heart of Maine Lobster Fishermen

Prairie Starfish Productions, 1992.

Three fishermen relate stories of the seafaring life. Length 28 min.

Science Bag: Alien Invaders: Exotic Species in the Food Web of the Great Lakes

Blue Sky Associates, 1991.

When Europeans came to the Great Lakes area, the ecology of the life systems changed forever. Biologist Arthur Brooks explains how non-native plants and animals were both deliberately and inadvertently brought to these waters as navigational routes and trade expanded. Discusses the food web of the Great Lakes and gives numerous examples of how individual exotic species, from microscopic organisms to familiar fish, can alter the balance in a specific system. Contact: Blue Sky Associates, 52 Oak Street, P.O. Box 429, Reading, MA 01867. Phone (617) 944-4204. Length 57 min.

See What Earth Science is All About. Section 3. Oceanography

Insights Visual Productions, 1986.

In-service training video for elementary classroom teachers. This segment includes: Ocean floor, Features, Sonar, Plate tectonics, Salt in Seawater. Contact: Insights Visual Productions, P.O. Box 644, Encinitas, CA 92024. Phone 1-619-942-0528. Length 108 min.

Spaceship Earth: The Swirling Seas

South Carolina ETV Marketing

Order from South Carolina ETV Marketing, P. O. Drawer L, Columbia, SC 29250. Phone (800) 553-7752 Length 30 min.

Splendors of the Sea

Discovery Home Entertainment, 1992.

A colorful introduction to a variety of sea creatures including moray eels, octopus and lion fish. Length 15 min.

Troubled Waters

California Coastal Commission

A discussion of marine debris and its effect on the marine environment. Order from California Coastal Commission, Phone (415) 904-5214. Gr 3-up. Length 29 min.

Wet & Wild: Under the Sea with OWL/TV

Children's Group, Inc.

Visit dolphins in Florida, watch deep water fishing off the coast of British Columbia and explore Kenya's colorful coral reef. Gr K-up. Length 30 min.

Whale Watch

Nova, Time-Life Video, 1982.

Introduces observation methods used for the study of gray whales of the Pacific coast. Gr 6-12. Length 53 min.

A World in Our Backyard: Wetlands Education and Stewardship Program

Environmental Media

A presentation on ecosystems and conservation. Order from: Environmental Media, P. O. Box 1016 Chapel Hill, NC 27514. Phone (800) 368-3382. Length 24 min.